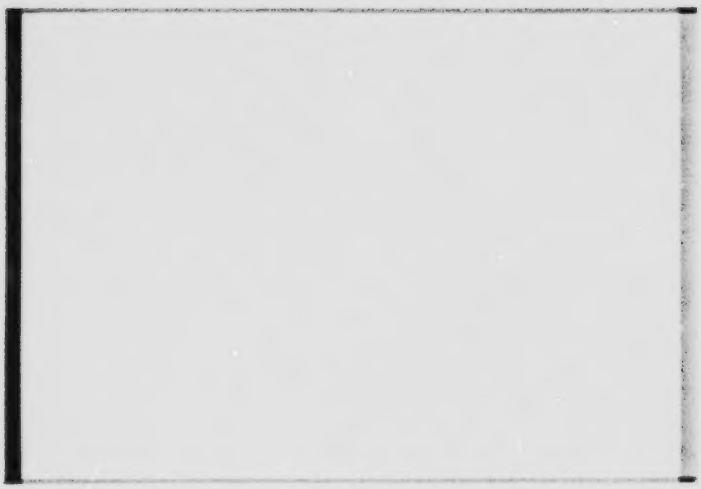
AGRI·FOOD

ECONOMIC & REGIONAL DEVELOPMENT AGREEMENT



Canada

Manitoba

SUMMARY

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June 30, 1986

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AGRI-FOOD

WHAT IS IT?

The Canada-Manitoba Subsidiary Agreement on Agri-Food Development is a federal-provincial program designed to provide Manitoba agriculture with a coordinated and complementary development strategy, based on thorough sectoral analysis.

The major programs of this Agreement are:

1. Enhanced Agricultural Productivity
2. Enhanced Soil and Water Resource Management
3. Human Resources Development
4. Analysis, Evaluation, Implementation and Public Information

This summary briefly describes approved projects now underway.

MORE INFORMATION

Agri-Food projects and on-farm trials are taking place throughout the agricultural regions of Manitoba. Information on the various projects and/or a copy of the Agri-Food Agreement can be obtained by contacting your local agricultural representative or either of the offices listed below.

Agri-Food is a Subsidiary Agreement of the Canada-Manitoba Economic and Regional Development Agreement (ERDA) which was signed on May 30, 1984.

CONTACT

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Winnipeg, Manitoba

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Alf Chorney
Manitoba Agriculture
Winnipeg, Manitoba

(204) 945-4018

PROJECT NAME: Potato Storage and Quality

PROJECT NUMBER: 11101

DURATION: Four (4) years.

FUNDING: $192,000 (F)

LOCATION: Agriculture Canada Research Station - Morden

BACKGROUND:

Attempts to store potatoes in Manitoba for 11 months or longer have resulted in serious quality deterioration and significant economic loss to potato producers and processors. The objective of this project is to develop storage management practises for improving the colour of processed potato products, especially frozen french fries.

TARGET:

1. By 1987, collect information on cultural and environmental factors which influence colour of french fries and chips.
2. By 1988, develop additional information on factors affecting quality - maturity, sprout inhibitors, temperature and humidity, CO_2 levels, etc.
3. By 1988, determine the critical CO_2 levels.
4. By 1989, develop and evaluate microprocessor - infrared radiation technology for controlling CO_2, temperature and humidity in potato storages.

SPONSORING GROUPS:

Agriculture Canada Research Station - Morden
Keystone Vegetable Producers Association
Manitoba Agriculture

CONTACT PERSON:

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Research Scientist
Agriculture Canada Research Station
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PROJECT NAME: Potato Economic Insect Pests

PROJECT NUMBER: 11102

DURATION: Two (2) years

FUNDING: $33,520 (Federal)

LOCATION: Department of Entomology, U of M

BACKGROUND: Populations of potato beetles and flea beetles in Manitoba are large enough to cause some concern to growers and it is important to find out whether control measures should be taken.

TARGET:

1) By the end of 1987, develop information on the extent of damage to potato production that is caused by varying populations of potato beetles, flee beetles and other insect pests.

2) Assess the effectiveness of insecticides for the control of these insect pests.

3) Develop a list of recommendations that will assist potato growers in the assessment of potential insect damage and the available methods for control.

SPONSORING GROUPS:

Manitoba Vegetable Growers' Association
University of Manitoba
Agriculture Canada

CONTACT PERSON:

Dr. J.N. Holliday
Dept. of Entomology
University of Manitoba
Winnipeg, Manitoba
R3T 2N2

(204) 474-8365

PROJECT NAME: Potato Bruising Study

PROJECT NUMBER: 11103

DURATION: Four (4) years

FUNDING: 100,000 (Federal)

LOCATION: Food Science and Engineering, U of M

BACKGROUND: Mechanical injury or bruising of potatoes through the normal harvesting, handling and storage practises of the potato industry has been identified as a significant economic problem for the industry.

TARGET:

1) Review the literature dealing with mechanical bruising of potatoes.

2) Assess testing methods of bruising and the forces involved in bruising.

3) Assess current practises, procedures and equipment used in tuber harvest, storage and transport.

SPONSORING GROUPS:

Manitoba Vegetable Growers' Association
University of Manitoba
Agricuture Canada

CONTACT PERSON:

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Dr. M.G. Britton
Ag. Engineering Dept.
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Winnipeg, Manitoba
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PROJECT NAME: Norstar Winter Wheat Breeding

PROJECT NUMBER: 11105

DURATION: Four (4) years

FUNDING: $167,000 (Federal)

LOCATION: Agriculture Canada Research Station, Winnipeg

BACKGROUND: The lack of adequate disease resistance in the best currently available winter wheat variety NORSTAR, threatens to limit or eliminate production in the disease-prone Eastern Prairies.

TARGET:

1) To have a winter wheat cultivar equivalent to Norstar, but with leaf and stem rust resistance, by 1989.

2) To have advanced breeding lines equivalent to Norstar, but with leaf and stem rust resistance and loose smut resistance, by 1989.

3) To have advanced breeding lines of semi-dwarf winter wheat with the winter hardiness of Norstar and resistance to leaf and stem rust by 1989.

SPONSORING GROUPS:

Agriculture Canada

CONTACT PERSON:

Dr. J.M. Martens
Ag. Canada Research Station
Winnipeg, Manitoba
R3T 2N2

(204) 269-2100

PROJECT NAME: Triple-Medium Wheat Develoment

PROJECT NUMBER: 11106

DURATION: Four (4) years

FUNDING: $428,300 (F)

LOCATION: Agriculture Canada Research Station - Winnipeg

BACKGROUND: Canada's enviable reputation for supplying world markets with high quality wheat was based on our traditional hared red spring wheat. Changing markets have clearly indicated a rising world demand for lower "quality" triple-M wheats (medium protein, medium hardness, medium gluten strength). Canadian farmers have grown unlicensed, but higher yielding U.S. semi-dwarf, triple-M wheat varieties. The success of the licensed HY320, in production and export market acceptability, has created strong interest in development of better triple-M wheats.

TARGET: General

This project will initiate the development of cultivars of triple-M wheat, with the following characteristics:

- 20 - 30% yield advantage
- earlier maturity
- resistance to diseases and smuts
- semi-dwarf, with strong straw
- kernel distinguishability

Specific

- collect and evaluate breeding material
- initiate a crossing program
- selection and screening
- enter lines in preliminary yield trials

SPONSORING GROUPS:

Agriculture Canada

CONTACT PERSON:

Dr. R.I.H. McKenzie
Research Station, Agriculture Canada
195 Dafoe Road
Winnipeg, Manitoba
R3T 2M9

Phone (204) 269-2100

PROJECT NAME: Cereal Crops Germplasm Screening

PROJECT NUMBER: 11108

DURATION: Four (4) years

FUNDING: $250,000 (F)

LOCATION: Agriculture Canada Research Station - Winnipeg

BACKGROUND:

The successful production of cereals in Manitoba continues to be threatened by disease. New sources of resistance are required to avoid a serious problem with new, virulent strains which can overcome resistance present in current cultivars. A broad range of genetic variability must be available to the plant breeder.

TARGET:

To establish a facility for storing, cataloguing and evaluating wheat and barley germplasm, in order to make this seed readily available to plant breeders of these two crops.

Specific

- establish a computerized system for storing and accessing data on characteristics of germplasm stocks.
- determine the inheritance of the observed characteristics
- maintain existing germplasms in a viable condition
- continue to add to the number and diversity of germplasm collections.

SPONSORING GROUPS:

Research Branch, Agriculture Canada, Winnipeg

CONTACT PERSON:

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PROJECT NAME: Monitoring and Control of Crop Pests

PROJECT NUMBER: 11112

DURATION: Four (4) years.

FUNDING: $384,100 (F)

LOCATION: Winnipeg

BACKGROUND:

Manitoba farmers require information on if and when to apply recommended control measures to combat insect infestation. Most of the pest problems are sporadic in time and place. Accurate prediction of problems can increase the effectiveness and reduce the cost of control measures.

TARGET:

Develop information on methods of predicting pest abundance and providing recommendation on effective control measures.

Specific

- develop and demonstrate methods of monitoring and predicting pest infestations.
- quantity losses caused by insect pests
- test the efficacy of recommended control measures

SPONSORING GROUPS:

Research Branch, Agriculture Canada, Winnipeg.

CONTACT PERSON:

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195 Dafoe Road
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PROJECT NAME: Herbicide Efficiency Using Adjuvants

PROJECT NUMBER: 11115

DURATION: Two (2) years

FUNDING: $83,000 (Federal)

LOCATION: Agriculture Canada Research Station, Brandon

BACKGROUND: The use of lower amounts of active herbicide ingredients by a farmer in his weed control program could significantly reduce the cost of treatment and reduce the potential harmful environmental effects of the chemical. The objective of this study is to evaluate the use of surfactants, crop oils and inorganic salts for this purpose.

TARGET:

1) Using Poast, Lontrel and Assert on specified crops, establish greenhouse trials to evaluate weed control and crop tolerance to combinations of herbicides and surfactants.

2) Establish field trials using the most promising results obtained in the greenhouse studies.

3) Develop further action plans on the basis of the most promising results.

4) Disseminate information obtained to research, extension and industry personnel.

SPONSORING GROUPS:

Agriculture Canada
Private Industry

CONTACT PERSON:

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Dr. Anne M. Hinshalwood
Ag. Canada Research Station
Brandon, Manitoba
R7A 5Z7

(204) 728-7234

PROJECT NAME: CANOLA MANAGEMENT DEMONSTRATION PLOTS

PROJECT NUMBER: 11201

DURATION: Four (4) years.

FUNDING: $290,000 (F)

LOCATION: 5 plots in the main canola growing areas.

BACKGROUND:

Canola has become one of Manitoba's most important field crops. Two crushing plants require canola as a raw product. Average yields of canola are often too low to make the crop profitable for the grower, but technology is available to obtain higher yields.

TARGET: General

To visually demonstrate to canola growers in Manitoba that the combination of sound management and proven agronomic practises, adapted to individual farms, will result in higher profit per hectare through increased yields.

Specific

Demonstration of benefits from:

-- using best seed varieties
-- early seeding
-- tillage practises and weed control
-- fertilizer rates recommended for the area/farm
-- effects of insect and disease control

SPONSORING GROUP:

Manitoba Canola Growers Association

CONTACT PERSON:

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Manitoba Canola Growers Assoc.
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Winnipeg, Manitoba
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PROJECT NAME: LEAFCUTTER BEE DISEASE CONTROL

PROJECT NUMBER: 11202

DURATION: 3 years TOTAL FUNDING: $117,000 (Prov.)

LOCATION: Interlake area

BACKGROUND: The alfalfa leafcutter bee is used in the pollination of alfalfa for seed production.

Chalkbrood disease, caused by the fungus Ascosphaera aggregata, was first detected in Manitoba leafcutter bee stocks in 1982. Manitoba producers have remained competitive in the alfalfa seed industry by utilizing the leafcutter bee to increase seed production. They also enjoy good export markets for their surplus bee stocks, primarily due to the disease-free status of the bees.

If this disease is allowed to go unchecked and becomes widespread in Manitoba, infection levels may reach 40-60% in 3 - 5 years. These levels of infection have been attained in some of the northwestern states in the U.S. where alfalfa is grown for seed. Producers in these states rely heavily on Canadian leafcutter bees to re-stock their operations.

TARGET: General

To determine both the locations and levels of chalkbrood disease infection in Manitoba leafcutter bee stock and to demonstrate practical techniques for the prevention and control of this disease.

Specific

- Identification of chalkbrood disease levels through producer surveys.
- Demonstrations of sanitation techniques to control chalkbrood disease.
- Development of recommendations for chalkbrood disease control.

SPONSORING GROUPS:

- Manitoba Alfalfa Seed Producers' Association
- Manitoba Agriculture

CONTACT PERSONS:

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Extension Apiarist
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PROJECT NAME: Disease Free Potato Production

PROJECT NO.: 11203

DURATION: 4.5 years TOTAL FUNDING: $500,000 (Prov.)

LOCATION: South West of Portage la Prairie at Espo Farm

BACKGROUND: Provision of disease tested stock of seed potatoes forms the base for Manitoba seed and commercial processing potato industry. Potatoes are the only mass produced field crop in Manitoba using a vegetative propagation system. This requires intensive and specialized disease control procedures.

TARGET: To continue to operate, in co-operation with the Seed Potato Growers' Association of Manitoba, the seed potato increase facilities at Espo Farm so that

a) supplies of seed material are sufficient to fulfill the demand for commercial varieties.

b) introductions of new and promising cultivars are made on a timely basis as required by the industry.

c) techniques of production, disease identification and monitoring are updated regularly.

SPONSORING GROUP: Seed Potato Growers' Association of Manitoba

CONTACT PERSON:

Association
Allen Funk, President
Box 73, Plum Coulee, MB.
ROG 1RO

Manitoba Agriculture
Garth Stone
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Winnipeg, MB.
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PROJECT NAME: Commercial Potato Production

PROJECT NO.: 11204

DURATION: 4.5 years TOTAL FUNDING: $200,000 (Prov.)

BACKGROUND: Potato production involves a significant value added component to the economy through local processing and export of the processed products into the Canadian and off-shore markets. Maintenance and expansion will require continued effort to maintain and improve the competative position of the local industry.

TARGET: To identify, demonstrate and have adopted techniques of production, storage and management which improve the productive efficiency of potatoes for processing in the area. Particular attention will be paid to specific techniques such as fertilizer use, pest management, soil conservation, crop maturity indicators, storage techniques and other factors that become apparent during the life of the project. This will be accomplished by working directly with and reporting to producers and processors of potato products.

SPONSORING GROUP: Keystone Vegetable Producers' Association Incorporated

CONTACT PERSON:

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Eldon McEachern, Pres.
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Garth Stone
908 Norquay Building
Winnipeg, Manitoba
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PROJECT NAME: Peatland Production Demonstration

PROJECT NUMBER: 11205 [crops] 23218 [soils]

DURATION: 5 years **TOTAL FUNDING:** $250,000 (Prov.)

LOCATION: Peat soils in the interlake and eastern regions

BACKGROUND: Approximately 200,000 acres of peatland are being farmed in the Province with limited success compared to mineral soils. The main reason for this problem is that crop production and soil management technology related to peatland are presently very limited.

TARGET:

General:

To develop crop and soil technologies which will facilitate crop production on peatlands.

Specific:

The project has two components; crops and soils. The target is the development of:

- fertilizer recommendations for various crops grown on peatlands.
- tillage practices to control erosion and enhance seed bed moisture.
- ag met data base for peat soil.
- crop and variety recommendations for peat soils.
- weed and disease control recommendations peculiar to peatlands.

And the demonstration of:

- economically efficient fertilizer practices.
- production of crops adaptable to the unique climate and soil limitations.
- tillage, weed, and disease control practices specific to peat soils.

SPONSORING GROUPS:

1] The Peatland Farming Association
2] Manitoba Agriculture

CONTACT PERSONS:

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MANITOBA FORAGE SEED PRODUCERS' ASSOCIATION

Project #11206

Forage Seed Production — TOTAL FUNDING: $200,000 (Prov.)

This project is being conducted by a producer association with the objective of providing forage seed producers with the necessary information to bring farm production in line with potentials shown, possibly through previous research.

A good deal of work has been done in the area of forage seed production in the past by a number of different groups. But much of this has not been demonstrated under Manitoba conditions or has simply not been available to producers. The MFSPA is committed to working with various agencies and groups and will through this project gather, compile and distribute information about appropriate forage seed production practices.

The project will look at the following areas:

a) Weed Control - by following up on previous work and developing information based on these trials.

b) Fertility - demonstrations and investigations into rates, carriers, and timing.

c) Plant Physiology & Production Practices - this area of the project will examine areas such as trash management, burning, stand density and the use of plant growth regulators.

The project is being conducted by a project manager, Linda Loewen working out of the Arborg Ag. office at 376-5211.

Funding for the project is $200,000 over 5 years. The funding is provincial.

Contact: G. Huebner
Agricultural Representative
Arborg
376-5211

PROJECT NAME: INTENSIVE CROP MANAGEMENT

PROJECT NUMBER: 03-7B-11207-01-01

DURATION: 5 Years **TOTAL FUNDING: $76,000 (Prov.)**

LOCATION: Dauphin, Manitoba

BACKGROUND:

Crop Production requires close attention to details to maximize yields for economic returns. Intensive Crop Management is the paying attention to details in all phases of producing a crop from seeding to harvest to maximize returns.

TARGET: GENERAL

Crop producers in Dauphin area by being a part of the ICM Club, record, analyze and evaluate the inputs and resources required to obtain a yield and most important, determine the economic soundness and returns for any added cropping inputs.

SPECIFIC

Development of:

-crop record keeping system(s)
-analysis of physical crop inputs
-economic analysis of crop inputs
-a forum for discussion of research and area production practices.

DEMONSTRATION OF:

-Factors that affect crop production(e.g. fertility, tillage, etc) by manipulation of inputs and determining the effect by yield monitoring.
-Specific areas of concern by meetings, tours, speakers, etc to address problem areas.
-The benefit of analytical tools available to help predict crop production e.g. soil and tissue testing.

SPONSORING GROUP:

Dauphin Agricultural Society

CONTACT PERSON(S):

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Dauphin Ag. Society
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638-9111

PROJECT NAME:

Management of Continuous Crop Systems - South West Region

PROJECT NUMBER:

03-7B-11207-02-01

DURATION:

Four years

TOTAL FUNDING:

$74,900 (Prov.)

LOCATION:

South West Region

BACKGROUND:

A trend is developing towards intensive cropping using fungicides, higher fertilizer rates, high yielding varieties, etc. There is a need to develop and demonstrate crop management including a wide range of factors such as fertility, seeding, weed control, disease control, growth regulators, tramlining, etc.

TARGET:

General - To develop and demonstrate crop management practices that will maximize returns in a continuous cropping system.

Specific - Develop crop management recommendations.
- Demonstrate use of management techniques that will maximize returns including weed control, disease control, fertility, varieties, etc.

SPONSORING GROUPS:

- South West Region Crop Management Association
- Manitoba Agriculture

CONTACT PERSON:

South West Crop Management Association

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PROJECT NAME: INTENSIVE CROP MANAGEMENT

PROJECT NUMBER: 11207-03-01

DURATION: four years TOTAL FUNDING: $44,500 (Prov.)

LOCATION: Central Region

BACKGROUND:

There is an increasing awareness of ICM. All the answers on production practises are not known. The project should assist in decision-making and provide some farm scale economic analysis.

TARGET: General

Producers using up to date crop technology and interested in ICM.

Specific

-- Demonstration of ICM practises
-- Development of information package based on results obtained
-- Monitoring of crop growth climate as it relates to ICM decisions

Demonstration of:

-- Crop growth monitoring
-- Fertilizer responses under ICM
-- Decisions on ICM practise implementation
-- Economic analysis of results

SPONSORING GROUPS:

-- Central Region Crops Committee

CONTACT PERSONS:

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PROJECT NAME: FERTILIZER PLACEMENT

PROJECT NUMBER: 11207-03-02

DURATION: four years TOTAL FUNDING: $20,300 (Prov.)

LOCATION: Central Region

BACKGROUND:

(a) Discer seeders do not concentrate fertilizer as close to the seed as drill seeders. There is no current guidelines on safe amounts of seed placed fertilizer for discers.

(b) Current research indicates that small amounts of seed placed fertilizer may be beneficial when deep N-P banding is used.

(c) Interest has been expressed in studying safe amounts of seed placed fertilizers under minimum or zero till management.

TARGET:

General

Producers:

-- using discer seeders on clay soils
-- dual deep banding N & P
-- practising minimum or zero till

Specific

Development of:

-- information for guidelines on safe limits of seed placed fertilizer with discer seeding
-- information on the responses to small amounts of seed placed phosphorous with dual deep N-P banding
-- information for guidelines on safe seed placed limits under minimum or zero till management

Demonstration of:

-- varying seed placed fertilizer rates for the three sub projects

SPONSORING GROUPS:

-- Central Region Crops Committee

CONTACT PERSON:

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PROJECT NAME: Eastern Grassland Society Crops Management Demonstrations

PROJECT NUMBER: 11207-04-01

DURATION: 5 years TOTAL FUNDING: $40,000 (Prov.)

LOCATION: Eastern Region

BACKGROUND: In the Eastern Region feed grains account for 42% of the cereal grain production and is required to support the extensive livestock industry. The region is currently a net importer of feed grains and expansion is possible particularily on some lower class soils. Forage seed is also an expanding industry in the region.

TARGET: General - Through the application of technology, increased production of feed grains and forage seeds has potential.

Specific - Demonstrations of:

- feed grain production and management including feed wheats and winter annuals.
- lower cost feed storage systems.
- forage seed production and management

SPONSORING GROUP: Eastern Grassland Society

CONTACT PERSONS:

Les Kurbis, President
Eastern Grassland Society
Box 50
Beausejour, Manitoba
ROE OCO

Fraser Stewart
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Box 50, 20 First St. S.
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PROJECT NAME: STUARTBURN-PINEY AGRICULTURAL DEVELOPMENT ASSOCIATION (SPADA) CROP PRODUCTION TECHNOLOGY TRANSFER

PROJECT NUMBER: 11207-04-02

DURATION: 4 years TOTAL FUNDING: $40,000 (Prov.)

LOCATION: Vita, Manitoba

BACKGROUND: Yields in the Stuartburn-Piney Agricultural Development Association district have been traditionally low.

TARGET:

General

To increase overall net farm income in the Stuartburn-Piney Agricultural Development Association district by

- producing more and better quality feed grains
- growing cash crops suited for the area
- growing forage seed and fall crops on erosion prone land

Specific - Demonstration of:

- feed grain to increase yields to 55 bus. for barley, 75 bus. for oats, plus 30 bus. for feed wheat
- winter cereals such as rye and winter wheat on erosion prone land
- canola management as a special crops alternative
- forage seed production

SPONSORING GROUP: Stuartburn-Piney Agricultural Development Association (SPADA)

CONTACT PERSONS:

Forrest Scheer
Chairman
Stuartburn-Piney Agricultural Development Association
P.O. Box 10
Vita, Manitoba
ROA 2KO

Wally Happychuk
Agricultural Representative
Manitoba Agriculture
P.O. Box 10
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ROA 2KO

PROJECT NAME: DISCER FERTILIZER PROJECT

PROJECT NUMBER: 11207-04-03

DURATION: 5 years TOTAL FUNDING: $42,500 (Prov.)

LOCATION: Eastern Region

BACKGROUND: Farmers who operate on clay soils prefer to use discer seeders to seed their crops. At present recommendations for nitrogen (urea) placed with the drill are based on use of a double disc press drill. There is a need to define the limits of seed placed fertilizers with discer seeders.

TARGET: General - To establish a series of plots on cereal crops showing its effect on seedlings and ultimately yields, placing increasing amounts of urea fertilizer using a discer seeder.

Specific - Development of:

- safe upper limits for use of urea type fertilizers with discer seeder.
- an understanding of factors which affect seedling vigor and yield losses due to the use of high levels of urea fertilizer.

Demonstrate:

- the harm done to seedling plants by high rates of urea fertilizer placed close to seed.
- the safe level of urea fertilizer using discer seeders before economic losses are incurred.

SPONSORING GROUP: Agassiz Soil and Crop Improvement Association

CONTACT PERSONS:

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Agassiz Soil and Crop
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Winnipeg, Manitoba
R2G 2X4

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Rodney Siemens
Regional Agronomist
Manitoba Agriculture
Eastern Region
Box 760
Steinbach, Manitoba
ROA 2AO

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PROJECT NAME: INTENSIVE CROP MANAGEMENT - INTERLAKE REGION

PROJECT NUMBER: 03-7B-11207-05-01

DURATION: four years TOTAL FUNDING: $61,800 (Prov.)

LOCATION: Interlake Region

BACKGROUND:

There is increasing interest in Intensive Crop Management. Information is required to prepare and evaluate such a package under Manitoba conditions.

TARGET: General

To develop an information package on I.C.M. practices and procedures that have an economic benefit to producers.

Specific

- Demonstrate and Investigate more intensive management inputs.
- Demonstrate importance of a total package of management decisions and factors.
- Secure details of costs of production and net returns.

SPONSORING GROUPS:

Manitoba Agriculture - Interlake Region.

CONTACT PERSONS:

Project Manager

Andrew Dickson
Director - Interlake Region
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ARBORG, MB
ROC OAO
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Project Leader

Ed Senkow
Crops Agronomist
Interlake Region
Box 2000
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Telephone: 376-5212

PROJECT NAME: Technology Transfer in Pulse Crops

PROJECT NUMBER: 11209

DURATION: One year

FUNDING: $25,000

LOCATION: Southern Manitoba

BACKGROUND:

1) Approximately 44,500 ha (110,000 ac.) of field peas are grown annually in Manitoba. A new field pea cultivar has been licensed recently. This is a semi-leafless type in which the leaflets are reduced to tendrils. This cultivar has many agronomic advantages over other commonly grown varieties.

2) There are approximately 4,700 ha (11,515 ac.) of beans grown in Manitoba. There would appear to be room for expansion of bean production, but growers need to know more about varieties and agronomic practices.

TARGET :

1) To establish about 8 TIPU field pea demonstration plots and generate performance data on this new cultivar.

2) To identify cultivars of coloured and white beans with early maturity and high yields, suitable for production in Manitoba.

3) To organize and hold field days at these demonstration plots.

SPONSORING GROUPS:

Manitoba Pulse Growers Association
Agriculture Canada
Manitoba Agriculture

CONTACT PERSON:

John Dean, Secretary
Manitoba Pulse Growers Assoc.,
908 Norquay Bldg.
Winnipeg, Mantitoba
R3C 0V8

(204) 945-3820

PROJECT NAME:

Evaluation Of New Cultivars Of Field, Forage, And Horticultural Crops In Manitoba.

PROJECT NUMBER:

11301, 11302, 12301

DURATION:

Four years.

TOTAL FUNDING: $1,907,000

$1,144,200 (Fed.)
762,800 (Prov.)

LOCATION:

Selected test sites in Manitoba.

BACKGROUND:

Producers of all crops require detailed information on the relative performance of crop varieties as affected by environmental factors in specific areas of the Province.

Potato and vegetable producers and processors also require product end use quality evaluations.

TARGET:

The project is designed to evaluate candidate cultivars of agronomic crops in the following crop areas:

Cereal, Oilseed, and Special Crops

Performance data collected will, in general, include yield, maturity, disease reaction, and other agronomic measurements necessary for the development of annual 'Field Crop Recommendations'. Pertinent environmental and soil measurements will be recorded at all sites.

Forage Crops

Variety testing will be conducted at two sites, with fodder yields and seed yields being determined each year. The agronomic data will be made available for the development of annual 'Field Crop Recommendations'.

Horticulture

Potato and selected vegetable crops for agronomic adaptation, productivity, fresh market and processing end use.

SPONSORING GROUP:

University of Manitoba.

CONTACT PERSONS:

L. E. Evans
Department of Plant Science
University of Manitoba — Phone: 474-8222

W. R. Wilson
Regional Development Branch
Agriculture Canada — Phone: 949-4456

G. D. Webster
Soils & Crops Branch
Manitoba Agriculture — Phone: 945-3822

PROJECT NAME: Foreign Cattle Breed Evaluation

PROJECT NUMBER: 12101

DURATION: Three (3) years

FUNDING: $200,000 (F)

LOCATION: Agriculture Canada Research Station, Brandon.

BACKGROUND:

Prior to 1966, the Canadian beef industry was dominated by three long-established British breeds, Angus, Hereford and Shorthorn. The recent importation of new "exotic" breeds has opened up the almost unlimited possibility for various breed crosses. Beef producers could benefit from information on the relative economic ranking of the different crosses and on the response of these crosses to different environmental and management conditions.

TARGET:

To develop technical information bulletins for producer use, based on long term research programs conducted at Brandon, Manyberries and Lacombe.

1) Winter feed requirements for pregnant beef cows in relation to breed cross and environment.

2) Pre-weaning growth of calves in relation to cow milk production and feed requirements during lactation.

3) The relevance of cow condition to her productive potential.

SPONSORING GROUPS:

Research Branch, Agriculture Canada, Brandon.

CONTACT PERSON:

Dr. G.W. Rahnefeld
Brandon Research Station
Agriculture Canada
P.O. Box 610
Brandon, Manitoba
R7A 5Z7

Phone: (204) 728-7234

PROJECT NAME: Raising Pink Veal

PROJECT NUMBER: 12102

DURATION: Three (3) years

FUNDING: $75,000 (Federal)

LOCATION: University of Manitoba

BACKGROUND: Markets for male dairy calves in Manitoba have been unpredictable with calves being destroyed for lack of value. Pink veal production is considered to be one option for producing a marketable and usually higher priced item. Such an undertaking requires specialized feeding and management techniques.

TARGET:

1) Conduct a series of experiments using various feedstuffs in the production of white or pink veal.

2) Develop recommendations for rations to be used in the production of pink veal by Manitoba producers.

SPONSORING GROUPS:

Agriculture Canada Research Station, Brandon
University of Manitoba
Manitoba Light Veal Producers Association

CONTACT PERSON:

Dr. J.R. Ingalls
Animal Science Department
University of Manitoba
Winnipeg, Manitoba

PROJECT NAME: Trace Mineral Research

PROJECT NUMBER: 12103

DURATION: Four (4) years

FUNDING: $327,000 (277,000 Fed., $50,000 Prov.)

LOCATION: University of Manitoba

BACKGROUND: A proper dietary balance of minerals is necessary for weight gain, milk production and reproductive performance of cattle. The trace minerals of importance in Manitoba include copper, zinc, manganese, iron, selenium, cobalt and iodine. Since the metabolic interrelationships among trace minerals can be quite complicated, it is important to establish the effect of deficiencies and/or excesses of minerals in cattle rations.

TARGET: To establish a list of recommendations, based on a number of specific experiments, for mineral supplementation such that cattle producers throughout Manitoba can counteract the metabolic consequences of deficiencies or excesses of minerals in the diet.

SPONSORING GROUPS:

Agriculture Canada Research Station, Brandon
University of Manitoba

CONTACT PERSON:

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Dept. of Animal Science
University of Manitoba
Winnipeg, Manitoba
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(204) 474-9012

PROJECT NAME: VIDO Swine Pneumonia Vaccine

PROJECT NUMBER: 12104

DURATION: Three (3) years

FUNDING: $164,000 (Federal)

LOCATION: Veterinary Infectious Disease Organization (VIDO) Saskatoon

BACKGROUND: The prevalence of Haemophilus pneumonia in swine is on the increase all across Canada. In Maitoba, 52 infected herds were identified. This severe pneumonia results in $10 - $40 million losses annually to Canadian hog producers. This situation led to the establishment of VIDO in 1975. VIDO's objective is to develop and apply new preventive medicine techniques and health care products to farm livestock.

TARGET:

1) To develop a vaccine for H. pneumonia.

2) To test the effectiveness of such a vaccine.

3) Develop and test improved diagnostic techniques for H. pneumonia.

SPONSORING GROUPS:

Agriculture Canada Research Branch, Brandon

CONTACT PERSON:

Dr. Philip Willson
Veterinary Infectious Disease Organization
124 Veterinary Road
Saskatoon, Saskatchewan
S7N 0W0

PROJECT NAME: Honeybee Production Research

PROJECT NUMBER: 12105

DURATION: Three (3) years

FUNDING: $60,000 (Federal)

LOCATION: Various locations in Manitoba

BACKGROUND: Recent expansion in the Manitoba beekeeping industry has led to some very high concentrations of honey bee colonies in several areas of the Province. The "carrying capacity" of various crops under Manitoba conditions is largely unknown. Some beekeepers believe that certain areas have already exceeded the "saturation point" with too many colonies per area of crop and that per colony honey production is declining as a result.

TARGET:

1) Development of recommendations related to the stocking rates of bees for various crops.

2) Through demonstrations and publications, make this information available to Manitoba beekeepers.

SPONSORING GROUPS:

Manitoba Beekeepers' Association
University of Manitoba
Manitoba Agriculture
Agriculture Canada

CONTACT PERSON:

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Manitoba Beekeepers' Association
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PROJECT NAME: Beef Cattle Selection Strategies

PROJECT NUMBER: 12106

DURATION: Four (4) years

FUNDING: $163,000 (Federal)

LOCATION: University of Manitoba

BACKGROUND: Selection goals for beef cattle producers have not been well defined. Measurement of and selection for maternal traits is a new area of interest for many producers and an area which needs more research. In order to provide recommendations on selection goals to producers, a base of biological information on the various measurable traits of beef cattle is needed.

TARGET: Two research and/or extension bulletins are planned:

1) Genetic changes in maternal traits of beef cattle selected for increased yearling weight.

2) Economic evaluation of within-herd selection programs to improve maternal and growth traits of beef cattle.

SPONSORING GROUPS:

Agriculture Canada Research Station, Brandon
University of Manitoba

CONTACT PERSON:

Dr. G.H. Crow
Dept. of Animal Science
University of Manitoba
Winnipeg, Manitoba
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(204) 474-9102

PROJECT NAME: Economic Support for Agri-Food Research

PROJECT NUMBER: 12107

DURATION: Four (4) years

FUNDING: $175,000 (Federal)

LOCATION: Agriculture Canada Research Station Brandon

BACKGROUND: Research results must ultimately be interpreted in an economic context before any new technology is adopted. The need is apparent in beef breeding research that evaluates comparative biological performance of various breed combinations. It is evident in swine nutrition and management studies. Crop research programs could benefit from an economic input.

TARGET: Specific topics on which economic analysis will be undertaken, include:

1) Beef breeding research
2) Soil management
3) Forage management
4) Economics of special crop production
5) Alternative production systems
6) Evaluation of Agri-Food
7) Direct technology transfer

SPONSORING GROUPS:

Agriculture Canada Research Station, Brandon

CONTACT PERSON:

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Brandon, Manitoba
R7A 4Z2

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PROJECT NAME: Feeding Value of Stored Grains

PROJECT NUMBER: 12108

DURATION: Two (2) years

FUNDING: $82,000 (Federal)

LOCATION: University of Manitoba

BACKGROUND: For livestock feed, the value of a grain is principally determined by its nutrient content. The main grains used for livestock feed in Manitoba are barley, oats and rye. Enzyme treatment has produced significant improvements in the feed efficiency for the various grains and this can vary with the class of livestock being fed. More information is required on the effect of enzymes and substrates is another important item for study.

TARGET:

1) Examine the economic feasibility of adding enzymes to poultry feeds.

2) Determine degree of response when barley, oats, and rye are treated with enzymes.

3) Evaluate the in vitro viscosity test for predicting the effect of enzyme treatment.

4) Evaluate the metabolizable energy (ME) and amino acid availability (AAA) of enzyme treated grains.

SPONSORING GROUPS:

Agriculture Canada Research Station, Brandon
University of Manitoba

CONTACT PERSON:

Dr. R.R. Marquardt
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University of Manitoba
Winnipeg, Manitoba
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PROJECT NAME: Feeding Value of Cereal and Protein Crops

PROJECT NUMBER: 12109

DURATION: Four (4) years

FUNDING: $168,000 (Federal)

LOCATION: University of Manitoba

BACKGROUND: Analyses of feedstuffs for livestock and poultry have been in place in Manitoba for over 20 years and have produced useful information for the feed industry and individual producers. Differences in nutrient content by cultivar and location are believed to exist. Modern technology is now available to compile this information and apply it to formulate annual diets at the producer level, with the use of computer technology.

TARGET:

1) To accumulate data over a period of four years on the nutrient and trace mineral content of feed grains grown in different locations in Manitoba.

2) To conduct feeding trials to measure the availability of major nutrients for livestock and poultry.

3) Develop prediction equations for estimating the feeding value of feedstuffs based on chemical composition.

SPONSORING GROUPS:

Agriculture Canada Research Station, Brandon
University of Manitoba
Manitoba Agriculture

CONTACT PERSON:

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University of Manitoba
Winnipeg, Manitoba
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PROJECT NAME: Pre-Selection of Station Tested Bulls

PROJECT NUMBER: 12110

DURATION: Four (4) years

FUNDING: $40,500 (Federal)

LOCATION: University of Manitoba

BACKGROUND: The beef bull testing stations in Manitoba have a capacity for testing approximately 1000 beef bulls for growth performance annually. The capacity for growth and maternal productivity are the major traits of economic importance to the beef cattle and cow-calf operator. The impact that the particular mode of selection for maternal productivity will have on genetic change, compared to other ways of selecting for maternal productivity, is not known.

TARGET: To demonstrate to the Manitoba Beef Cattle Performance Association whether the maternal preselection of station tested beef bulls is of economic value to the industry. If it is, then specific procedures to incorporate maternal preselection into the existing testing system will be recommended.

SPONSORING GROUPS:

Agriculture Canada Research Station, Brandon
University of Manitoba
Manitoba Beef Cattle Performance Association

CONTACT PERSON:

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Dept. of Animal Science
University of Manitoba
Winnipeg, Manitoba
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(204) 474-9102

PROJECT NAME: Reed Canary Grass Research

PROJECT NUMBER: 12111

DURATION: Four (4) years

FUNDING: $40,000 (Federal)

LOCATION: University of Manitoba

BACKGROUND: Low productivity of seasonally flooded pastures and hay fields are a problem in many parts of Manitoba. Reed canary grass is a forage that grows well in water saturated soils and is also efficient in utilizing fertilizer nitrogen when soil is saturated. Reed canary grass, however, has high concerntrations of alkaloids, which inhibit digestion. Several new cultivars of reed canary grass have been developed with reduced alkaloid content. This study is to determine the success of the reed canary grass breeding program.

TARGET: Determine and compare the feed value and dry matter yield of new varieties of reed canary grass with that of a traditional selection and a timothy grass.

SPONSORING GROUPS:

Agriculture Canada Research Station, Brandon
University of Manitoba

CONTACT PERSON:

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University of Manitoba
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PROJECT NAME: Mycotoxin Contaminated Grain Research

PROJECT NUMBER: 12112

DURATION: Two (2) years

FUNDING: $23,000 (Federal)

LOCATION: University of Manitoba

BACKGROUND: Feed grains can contain moulds and mycotoxins that may be harmful to the animals or leave harmful residues in the animal products. High moisture barley samples have been found with potentially toxic levels of certain mycotoxins. This project is expected to generate information that will provide leads, if not specific information, on *in vitro* detoxification systems.

TARGET: To demonstrate that mycotoxin contaminated grain can be detoxified through the use of fungal enzymes or by the addition of certain compounds in the diet.

SPONSORING GROUPS:

Agriculture Canada Research Station, Brandon
University of Manitoba

CONTACT PERSON:

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University of Manitoba
Winnipeg, Manitoba
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(204) 474-8188

PROJECT NAME: Forage Preservation Research

PROJECT NUMBER: 12113

DURATION: Three (3) years

FUNDING: $152,120 (Federal)

LOCATION: University of Manitoba

BACKGROUND: Conservation of forage for winter periods of feeding is an essential feature of beef and dairy cattle production in Canada. The objective of any forage preservation method is to conserve digestible nutrients as efficiently as possible. The two major factors contributing to hay quality are plant maturity at the time of cutting and the harvesting and storage losses that occur once the forage stand has been cut. Weather conditions can significantly affect hay quality. This study is to provide information on measures that can be taken to improve hay quality harvested under adverse conditions.

TARGET:

1) Hay preservatives are available to Manitoba hay growers. This project will compare the effectiveness of hay preservatives for hay baled over a range of moisture levels and for two commonly used bale types.

2) Technical information obtained from the project will be made available to Manitoba farmers in the form of extension information bulletins and research publications.

SPONSORING GROUPS:

Agriculture Canada Research Station, Brandon
University of Manitoba

CONTACT PERSON:

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PROJECT NAME: Biting Fly Research Project

PROJECT NUMBER: 12114

DURATION: Two (2) years

FUNDING: $35,500 (Federal)

LOCATION: Seven Sisters Grassland Project

BACKGROUND: In Manitoba, 32% of the agricultural land is in pasture or unimproved land and livestock production offers the best potential use for this resource. Blood-feeding flies (horse flies) and mosquitoes can cause serious stress to pastured cattle and are frequently considered one of the major limitations to efficient animal performances.

TARGET:

1) To research systems aimed at reducing stress and protecting pastured cattle from biting fly and mosquito attack.

2) To carry out research on the nature and extent of losses so that the economic feasibility of these systems is maintained.

SPONSORING GROUPS:

Eastern Grassland Society
Agriculture Canada Research Station, Brandon
University of Manitoba

CONTACT PERSON:

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Dr. Terry Galloway
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Winnipeg, Manitoba
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PROJECT NAME: Ethelbert Feedlot Project

PROJECT NUMBER: 03-7B-12201-01-04

DURATION: Four Years **TOTAL FUNDING:** $29,700 (Prov.)

LOCATION: Ethelbert Area

BACKGROUND: There are many cow-calf producers in the area as well as much feed grain. In the past producers have been at the mercy of fall calf prices. With the advent of the Beef Stabilization Plan some producers are trying or contemplating finishing calves. However, many have had feeding problems and problems achieving A1 and A2 grades.

TARGET:

GENERAL: to increase the amount of cattle finished locally.

SPECIFIC: Demonstration of:
- feed testing ration formulation
- economics of establishing a small lot
- feed mixing and processing
- carcass grades and how to judge finish

To Increase:
- the market weight of beef sold in the area from an average of 480 to 900 lbs. averages
- the gross revenue being generated by beef in the area
- the options available to grain producers in the area by creating a local market for feed grains.

SPONSORING GROUP: Ethelbert Cattlemen's Association

CONTACT PERSON: Mary Paziuk
Manitoba Agriculture
Box 266
Ethelbert, Manitoba
ROL 0T0
Phone: 742-3779

PROJECT NAME: Duck Mountain Replacement Heifer Project

PROJECT NUMBER: 03-7B-12201-01-01

DURATION: Five Years **TOTAL FUNDING:** $95,000 (Prov.)

LOCATION: Pasture - Fork River Area
Dry Lot - Roblin Area

BACKGROUND: In the past many producers in the area have been breeding heifers as 2 year olds to calve as 3 year olds. Those calving as 2 year olds have experienced a high percentage of calving problems as well as reduced pregnancy rates as 2 year olds. Most of this is due to insufficient size as yearlings and failure to manage the bred heifers as a separate group. Economic losses have occurred due to lost production and loss of animals.

TARGET:

GENERAL: To demonstrate the management of replacement heifers and 2 year olds with calves for increased productivity and decreased calving costs.

SPECIFIC: Increase:
- yearling weight of heifers
- pregnancy rates of yearlings and 2 year olds
- increase weaning weights per heifer exposed

Demonstration of:
- feeding required for proper growth prior to breeding
- synchronization in breeding
- bull selection for calving ease
- forage varieties for pasture
- rotational grazing

SPONSORING GROUP: Duck Mountain Grassland Society

CONTACT PERSON: Mary Paziuk
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Ethelbert, Manitoba
ROL 0T0
Phone: 742-3779

Project Name: Northwest Swine Breeders Herd Health Demonstration

Project Number: 12201-01-06

Duration: 5 Years **TOTAL FUNDING:** $49,100 (Prov.)

Background: To maintain domestic and export markets for Manitoba pork, it is necessary to be increasingly cost competitive. Increased production efficiency and reduced costs can be achieved by adopting new practices in producing animals with improved health status.

Target: To demonstrate to swine breeders and commercial swine producers that new concepts of herd health, isolation, and minimal disease will be beneficial to them.

To demonstrate to swine producers the labour efficiency of open front facilities where mechanization of feeding, watering and manure removal takes place in a partially open air environment.

To demonstrate on local swine breeders' farms the type of facilities which are conducive to breeding stock sales.

Sponsoring Groups: Northwest Swine Breeders Association

Contact:

Project Leader	**N.W. Swine Breeders**
G. V. Olsen Livestock Specialist Box 370 SWAN RIVER, Manitoba ROL 1ZO	Mr. Lionel Henderson President Box 340 MINITONAS, Manitoba ROL 1GO

PROJECT NAME: LAWRENCE CATTLEMEN CO-OPERATIVE FORAGE IMPROVEMENT PROJECT

PROJECT NUMBER: 12201-01

DURATION: three years **TOTAL FUNDING:** $20,000 (Prov.)

LOCATION: RORKETON AND TOUTES AIDES DISTRICTS

BACKGROUND:

Livestock as main source of income with a large amount of Class IV and V till soils in these districts. Traditionally large dependance on native hays from unimproved lands.

TARGET: **General**

To establish tame forage on Class IV and V soils in the Rorketon - Toutes Aides district

Specific

Development of:

-- within the Lawrence Cattlemen Co-op Ltd. the increase in establishment of tame forage acreage and quality of existing tame forage fields.

Demonstration of:

-- economically viable method of establishing tame forage on Class IV and V till soils and improvement of existing tame forage fields.

SPONSORING GROUP:

-- Lawrence Cattlemen Co-op Ltd.
-- Manitoba Agriculture

CONTACT PERSON:

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Manitoba Agriculture
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Ste Rose, Man.
ROL 1S0
Phone: 447-2116

PROJECT NAME: HEIFER REPLACEMENT PROJECT, THE PAS

PROJECT NUMBER: 12201

LOCATION: Lot 9 -- The Pasquia Settlement, The Pas

SPONSOR: Pasquia Grassland Society, The Pas

The 40± members of the Society represent 24 of 43 herds and approximately 3,000 of the 3,700 cows within the district.

DURATION: 4 years TOTAL FUNDING: $61,000 (Prov.)

OBJECTIVE:

To demonstrate year-round feeding practices required to grow animals to sufficient frame size to effect relative ease of calving.

To demonstrate the technology and economics of breeding replacement heifers to calf at two years of age and rebreed and produce calves annually thereafter.

To demonstrate tame pasture renovation techniques at minimum cost.

TARGET:

Within the Society membership, improve rations and feeding techniques to increase breeding weights and two year old calving weights of the heifer.

Increase the percentage of heifers exposed that successfully breed, calf and rebreed without delay in the subsequent year.

Reduce mortality rate of calves from two year old heifers through sire selection and calf management.

Identify numbers of members adopting recommended pasture renovation techniques.

BACKGROUND:

Heifer replacements bred at one year old to calf at two years of age have lacked proper nutrition and management. This problem is widespread in the district and has led to light weight replacements, calving difficulties and losses and light weaning weights. Difficulties in rebreeding these females have been experienced and economic losses have occurred. Emphasis is needed on selection of genetically sound herd sires based on low birth weights and performance records for the breeding heifer - A.I. and natural service.

HEIFER REPLACEMENT PROJECT, THE PAS

The adoption of tame pasture in the district has been good. Demonstration on renovation techniques is required. Replacement rates in the district are ten percent to 25 percent annually. Seventy-five percent, or less, of these replacements wean calves at two and a half years of age due to calving problems and culling due to unsuitability prior to or after calving. An additional 10 percent to 20 percent of females are open or late at two and a half years of age. At three and a half years of age, another 10 percent to 20 percent of females are open or late or are culled for other reasons. By age of four and a half years, only 20 percent of the original replacement females may remain in the herd due to being open, poor conformation or mothering ability, and calf quality due to both genetic and nutritionally based reasons. Approximately 550 replacements are kept annually in the district.

BENEFITS:

Through proper nutrition and genetic selection, the long term rate of replacements will be reduced and the genetic quality of livestock will be increased in the district.

In addition, through proper nutrition, optimal genetic frame size will be realized. By increasing the number of calves weaned from 75 percent to 90 percent, an additional 90 calves could be weaned the first year.

By increasing rebreedings 10 percent, 55 additional calves would be born to these females at three years of age. This would bring an additional annual return to the district of 145 calves at $400 giving $58,000. In addition, replacement rates and costs could be reduced drastically.

CONTACT PERSON:

Rod Berezowecki
President
Pasquia Grassland Society
c/o Box 2550
The Pas, Manitoba
R9A 1M4

Rod Berezowecki farms, holds a Diploma in Agriculture, and is active in community development.

ACTION PLAN:

The project pasture phase will be located on the Society pasture facility located on Lot 9, Pasquia Project. This facility is located on Agricultural Crown Lands lease and represents 313 acres of improved forage, paddocks, dugout and corrals. The winter feeding/breeding phase will take place on the home farms of participating members.

PROJECT NAME: WESTLAKE HEIFER PASTURE & FINISHING PROJECT

PROJECT NUMBER: 12201

DURATION: five years **TOTAL FUNDING:** $100,000 (Prov.)

LOCATION: WESTLAKE AREA

BACKGROUND:

Historically a large % of the heifer calf crop in the Westlake area have been marketed as calves or yearlings. Due to unknown pregnancy status and large quantities for sale these heifers are marketed at substantial price discounts to steers.

TARGET: **General**

To evaluate and compare economics of various heifer management systems.

Specific

Development of:

-- economically practical beef and pasture management systems

Demonstration of:

-- proper procedures in the growing management and finishing of heifers.
-- maximization of forage production from native pasture through the use of a well established and managed complimentary tame pasture

SPONSORING GROUPS:

-- Westlake Pasture Association
-- Manitoba Agriculture

CONTACT PERSON:

Rodger Sheldon
Manitoba Agriculture
Box 180
Ste Rose, Man.
ROL ISO
Phone: 447-2116

PROJECT NAME: Southwest Forage (Production) Improvement Project

PROJECT NUMBER: 03-7B-12201-02-04

DURATION: 4 Years TOTAL FUNDING: $45,000 (Prov.)

LOCATION: Southwest Region

Background

Sound management practises on both native and tame forages can result in increased beef production in good years and can help stabilize the cow herd in years of poor climatic conditions.

Target

Various management practises will be employed to increase forage productivity.

Demonstration will include the use of herbicides, fertilizers and sod-seeding equipment on farmers fields throughout the Region.

Sponsoring Group - Manitoba Department of Agriculture

Contact Person

M. J. Gramiak
1129 Queens Avenue
Brandon, Manitoba
R7A 1L9

728-5724 Ext. 209

PROJECT NAME - DELEAU FEEDLOT PROJECT

PROJECT NUMBER - 03-7B-12201-02-02

DURATION - 3 years

LOCATION - Deleau

TOTAL FUNDING - $54,000 (Prov.)

BACKGROUND:

Producers in the Deleau area have historically marketed their weanling calves in the fall. Approximately 80% of their calves have been sold to other parts of Canada and the United States. This project is aimed at demonstrating the feeding and management techniques required to run a small feedlot in the area and therefore encourage the feeding of more cattle here in the future.

TARGET:

The specific targets for the cattled fed out in the project is a average daily gain of 3 pounds or better for the entire feeding period; a feed conversion of 7.5 to 1 or better and to have all carcasses grade in the A1A2 category at a weight between 566 to 721 pounds.

SPONSORING GROUPS:

- Oak Lake Grassland Association
- Livestock Producers
- Manitoba Agriculture - Southwest Region

CONTACT PERSON:

Norm Hemstad
Manitoba Agriculture
1129 Queens Avenue
BRANDON, Manitoba
R7A 1L9

PROJECT NAME - DOUGLAS FEEDLOT PROJECT

PROJECT NUMBER - 03-7B-12201-02-01

DURATION - 3 years

LOCATION - Douglas Bull Test Station

TOTAL FUNDING - $51,000 (Prov.)

BACKGROUND:

The Manitoba Beef Cattle Performance Association has been involved in testing the genetic potential for growth in bulls for over 20 years. Average daily gain in a feedlot is a highly heritiable trait. Therefore steers which have been sired by genetically superior bulls should gain faster and more efficiently in a feedlot.

TARGET:

The specific targets for the cattle fed out in this project is an average daily gain of 3 pounds or better for the entire feeding period; a feed conversion of 7.5 to 1 or better and to have all carcasses grade in the A1A2 category at a weight between 566 and 721 pounds.

SPONSORY GROUPS:

- Manitoba Beef Cattle Performance Association
- Livestock Producers
- Manitoba Agriculture - Southwest Region

CONTACT PERSON:

Norm Hemstad
Manitoba Agriculture
1129 Queens Avenue
BRANDON, Manitoba
R7A 1L9

PROJECT NAME: Southwest Ammoniation Project

PROJECT NUMBER: 03-7B-12201-02-03

DURATION: 2 Years TOTAL FUNDING: $29,000 (Prov.)

LOCATION: Southwest Region

Background

Considerable Marsh and Coarse Slough Hay is utilized as a source of winter feed for beef cows. Quality, palatability and utilization can be improved considerably at a nominal cost by treating with Anhydrous Ammonia.

Target

Producers involved in the project will weigh their beef cows before they begin feeding the treated roughage and also at the end of the feeding period. Feed consumption will be monitored at each location.

Sponsoring Group - Oak Lake Grassland Society

Contact Person

M. J. Gramiak
1129 Queens Avenue
Brandon, Manitoba
R7A 1L9
728-5724 Ext. 209

Mr. Bill Bell
President
Deloraine, Manitoba
R0M 0M0

HIGH TENSILE SMOOTH WIRE FENCING DEMONSTRATION - SOUTHWEST REGION

This Agri-Food project is for the purpose of demonstrating to livestock producers the advantages of and the materials and construction techniques used in constructing high tensile smooth wire fences as a substitute for the conventional barbed wire fences commonly used for pastures up till now. Studies in Alberta and British Columbia indicate that this new style of fence is generally lower cost, safer, and more durable than barbed wire fences. The lower cost is a result of lower wire price, greater post spacing, and less labor.

It is planned to build two 0.8 km sections of fence each year during the four-year duration of the project. These demonstration fences will be on sites chosen in the primary cattle producing areas in the Southwest Region where they can easily be observed by interested stockmen. In addition photographs and videotapes taken during actual construction will be used to explain construction techniques at farm meetings.

TOTAL FUNDING: $11,400 (Prov.)

RR/smk

CALF RANGE SHELTER DEMONSTRATION - SOUTHWEST REGION

Many cow-calf producers in the Region have quite suitable facilities for wintering their beef cows and newborn calves as long as the soil remains frozen. But many of these facilities are poorly drained so that with the spring thaw the pens quickly turn to mud. Where this is the case, a suitable alternative is to move cows and calves to a grassy hillside where the snow has disappeared and the surface is firm underfoot. At this time of year the cows with their winter hair coats require little protection from the elements, but the small calves need to get out of the wind and the rain. For this purpose portable calf shelters are a suitable and relatively inexpensive way of providing such protection.

This project is to demonstrate the use of these calf shelters and to assess the relative merits of two styles of shelter in construction, ease of moving, and acceptability to the calves. It is proposed to construct one each of these two styles (open end and open side) each year during the four-year duration of the project and move them from farm to farm to provide experience in their use to cooperating producers and demonstration to others. Photographs and videotapes will also be used at farm meetings to further promote the idea.

TOTAL FUNDING: $8,000 (Prov.)

RR/smk

Project Name: Benchland Forage Consortium Project

Project Number: 12201-03-01

Duration: Five Years TOTAL FUNDING: $181,500 (Prov.)

Location: Southern portions of the Westlake area to include the R.M.'s of Lakeview and the majority of Westbourne

Background:

Historically this area has suffered from major soil problems including low natural fertility, poor drainage, stoniness, and micronutrient deficiencies. Farmers have relied on unimproved and native grass species for pasture and winter hay supplies. This has resulted in poor forage and livestock production.

Target: General:

To promote economic production practices in forage and livestock management with the producers.

Specific

The project will include the utilization of a grassland site as well as on-farm sites to demonstrate improved management techniques such as:

- introduction of tame species of legumes and grasses
- management systems for increased forage production
- utilization of grazing systems
- demonstrating equipment necessary to improve hay and pasture land
- management systems for livestock handling, breeding, fly control, and feeding

This should result in:

- improved carrying capacity and length of grazing season
- utilizing land resources more efficiently
- improved herd management systems
- increased net returns from forage and livestock production

Sponsoring Group: Benchland Forage Consortium Association

Contact Person:

Dennis Beernaert
Agricultural Representative
Box 532
Gladstone, Manitoba
R0J 0T0
(Phone 385-2856)

Vaughan Greenslade
Grasslands Specialist

Project Name: Alonsa Beef, Forage/Pasture Improvement Project
Project Number: 12201-03-02
Duration: Four Years **TOTAL FUNDING:** $95,400 (Prov.)
Location: Central Westlake area including the L.G.D. of Alonsa

Background:

The area suffers from major soil problems including low natural fertility, poor drainage and severe stone problems. Farmers rely principally on native grass species for hay and pasture. This results in poor forage and livestock production.

Target: General:

To promote economic production practices of forage and livestock production with the producers.

Specific:

- To demonstrate technology to improve management practices of forage production
- to increase quality and quantity of native winter feed
- to introduce tame forage species
- to increase carrying capacity and length of grazing season by utilizing grazing systems
- to improve quality and production of beef herds
- to reduce unit cost of production
- to improve herd management for both pasture season and winter feeding period

Sponsoring Group: Alonsa District Forage and Pasture Improvement Association

Contact Person:

Dennis Beernaert
Agricultural Representative
Box 532
Gladstone, Man.
R0J 0T0

Phone 385-2856

Vaughan Greenslade
Grasslands Specialist

Project Name: Rotational Grazing and Pasture Management on the Farm
Project Number: 12201-03-03
Duration: Three years TOTAL FUNDING: $45,000 (Prov.)
Location: Pilot Mound Agricultural District

Background:

Beef cattle have traditionally been allowed to graze both improved and native pastures under continuous, conventional pasture management. This has resulted in a short grazing season and low stocking rates on these pastures from an inefficient grazing method.

Target: General:

To demonstrate cost efficient production practices in forage and livestock management by utilizing a rotational grazing system on pasture.

Specific:

- to introduce tame forage species suited to pasture
- to demonstrate fencing system necessary for rotational grazing
- to introduce efficient livestock handling facilities
- to extend grazing season and carrying capacity by utilizing rotational grazing concepts
- to introduce livestock management such as A.I. and other breeding and selection programs.

Sponsoring Group: Louise Forage Improvement Association

Contact Person:

Rob McNabb
Agricultural Representative
Box 180
Pilot Mound, Man.
ROG 1P0
Phone 825-2858

Vaughan Greenslade
Grasslands Specialist

PROJECT NAME: Eastern Grassland Society Forage and Livestock Management Demonstration

PROJECT NUMBER: 12201-04-01

DURATION: 5 years TOTAL FUNDING: $131,400 (Prov.)

LOCATION: Eastern Region

BACKGROUND: Forage is an important crop in the Eastern Region due to the land base of which 42% is suited to this crop and the beef and dairy industry of the region. Dairy for example involves 38% of the provincial milk shippers.

TARGET: General - Through the application of technology increased production of forages and livestock is possible from the resources of the region. Greater adoption of this technology is possible by the use of on-farm demonstrations.

Specific - Demonstrations of:

- pasture production and management particularily on class 4, 5 and 6 land
- forage production and management including harvesting, storage and marketing
- forage and feed grains utilization
- cattle production and management

SPONSORING GROUP: Eastern Grassland Society

CONTACT GROUP:

Les Kurbis, President
Eastern Grassland Society
Box 50
Beausejour, Manitoba
ROE OCO

Fraser Stewart
Manitoba Agriculture
Box 50, 20 First St. S.
Beausejour, Manitoba
ROE OCO

PROJECT NAME: STUARTBURN-PINEY AGRICULTURAL DEVELOPMENT ASSOCIATION (SPADA) LIVESTOCK AND FORAGE TECHNOLOGY TRANSFER

PROJECT NUMBER: 12201-04-01

DURATION: 5 years TOTAL FUNDING: $125,400 (Prov.)

LOCATION: Vita, Manitoba

BACKGROUND: Beef is the major industry in the Stuartburn-Piney Agricultural Development Association (SPADA) district. Opportunity exists to increase management practises of both livestock and forage production.

TARGET:

General -

- to increase the number of calves fed locally to finish.
- to increase average calving rate to 90%; weaning weight to 500 lbs. average, daily gain to 3.0 lbs. and feed efficiency to 8 to 1.
- to increase forage yields to 2.25 T. per acre.

Specific - Demonstration to consist of:

- perennial forage management
- alternative and annual forages
- pasture management
- feedlot feeding trials
- herd health demonstrations

SPONSORING GROUP: Stuartburn-Piney Agricultural Development Association

CONTACT PERSONS:

Forrest Scheer
Chairman
Stuartburn-Piney Agricultural Development Association
P.O. Box 10
Vita, Manitoba
ROA 2KO

Wally Happychuk
Agricultural Representative
Manitoba Agriculture
P.O. Box 10
Vita, Manitoba
ROA 2KO

PROJECT NAME: FORAGE FERTILITY

PROJECT NUMBER: 12201-04-03

DURATION: 4 years **TOTAL FUNDING:** $10,500 (Prov.)

LOCATION: Eastern Region

BACKGROUND: In the Eastern Region, 42% of the land base is suited to forage production yet only 15% of the forage acreage is fertilized. There is a need to demonstrate the economic benefits of proper forage fertility.

TARGET:

General - By the use of strip fertilizer demonstrations on selected sites, and the use of soil and tissue testing, forage producers would realize the benefits of adopting the technology of forage fertilization.

Specific - Forage fertilizer strip demonstrations to be conducted each year on various forage crops and soil types in the Eastern Region. Approximately 10 demonstrations to be conducted each year.

SPONSORING GROUP: Manitoba Agriculture - Eastern Region

CONTACT PERSON:

Fraser Stewart
Manitoba Agriculture
Box 50, 20 First Street S.
Beausejour, Manitoba
ROE OCO

Phone 268-1411

PROJECT NAME: Pasture Cell Grazing Management

PROJECT NUMBER: 12201-04-04

DURATION: 4 years TOTAL FUNDING: $22,000 (Prov.)

LOCATION: Eastern Region

BACKGROUND: Lack of control of grazing animals on pasture is perhaps one of the major constraints to increased pasture productivity. Overgrazing, invasion of lower nutrative forage species and the loss of productive species particularly legumes is the result of uncontrolled grazing.

TARGET: General - The use of a planned grazing system which involves pasture subdivision, specified rest periods and adequate stocking density to utilize and maintain productive forage species will increase pasture productivity.

Specific - Up to 3 projects are planned per year to demonstrate pasture subdivision and grazing management.

SPONSORING GROUP: Manitoba Agriculture

CONTACT PERSON: Fraser Stewart
Manitoba Agriculture
Box 50, 20 First Street South
Beausejour, Manitoba
ROE OCO

Phone 268-1411

PROJECT NAME: Semen Evaluation

PROJECT NUMBER: 12201-04-05

DURATION: 3 years TOTAL FUNDING: $11,400 (Prov.)

LOCATION: EASTERN REGION

BACKGROUND: Higher pregnancy rates achieved through the use of fertile breeding bulls can increase reproductive performance. Beef producers can eliminate sub-fertile and foundered bulls prior to the breeding season through the use and practise of semen evaluation and hoof trimming. It is estimated that less than 10% of beef bulls are semen evaluated in the Eastern Region.

TARGET: General - Through encouraging the use of semen evaluation and hoof trimming, the productivity of beef herds in the Eastern Region will be increased.

Specific - demonstration of improved pregnancy rates, reduced calving interval and increased weaning weights achieved through the use of fertile bulls, and reduction in the utilization of sub-fertile bulls.

SPONSORING GROUP: Manitoba Agriculture - Eastern Region

CONTACT PERSON: William Grabowsky
Manitoba Agriculture
Box 100
St. Pierre, Manitoba
ROA 1VO

Phone 433-7749

PROJECT NAME: COMPUTERIZED ENVIRONMENT CONTROL

PROJECT NUMBER: 12201-04-06

DURATION: 3 years TOTAL FUNDING: $18,100 (Prov.)

LOCATION: Eastern Region

BACKGROUND: Most livestock is raised in confinment barns requiring environmental control systems. At present heating, intake air and exhaust air systems operate independently and can be extremely inefficient. There is a need to provide coordinated environmental control.

TARGET: General - To set up a demonstration in a confined livestock facility using a computerized controller to improve environmental conditions.

Specific - Demonstration of:

- computerized controller in a hog feeder barn to monitor and control the heating, ventilation, feed, water and electrical systems.

Evaluate:

- operational aspects of the controller.
- effects of the system on feed conversion efficiency, mortality rate, incidence of disease, and drug usage.

SPONSORING GROUP: Manitoba Agriculture - Eastern Region

CONTACT PERSONS:

Gary Plohman
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ROE OCO

Phone 268-1411

Dennis Hodgkinson
Agricultural Engineer
Manitoba Agriculture
911 Norquay Building
Winnipeg, Manitoba
R3C 0V8

Phone 945-3870

PROJECT NAME: HIGH TENSION SMOOTH WIRE FENCING DEMONSTRATION

PROJECT NUMBER: 12201-05-01

DURATION: five years TOTAL FUNDING: $10,000 (Prov.)

LOCATION: Lundar
Ashern - 1985

Arborg
Teulon - 1986

Other locations undetermined as of yet

BACKGROUND: The cost of fence construction constitutes a significant investment for the financially strapped beef producer. In addition, conventional construction practices and materials do not necessarily produce an efficient, long lasting fence.

TARGET: General

To demonstrate recommended fence construction techniques and relatively new materials (such as high tension smooth wire) in areas of the Interlake where beef production predominates.

Specific

To construct two demonstration fences per year of the contract. Each fence to be approximately 800 metres (1/2 mile) in length. In addition, the performance and maintenance required of these demonstration fences will be evaluated.

SPONSORING GROUPS:

Manitoba Agriculture

CONTACT PERSON:

Brian W. English, P. Eng.
Manitoba Agriculture
Box 2000
ARBORG, Manitoba
ROC 0A0

Project Name: Feeding Sows for Optimum Productivity

Project Number: 03-7B12201-05-02

Duration: 3 Years Total Funding: $7,900 (Prov.)

Location: Arborg Agricultural Representative District

Background:

With the current cost of constructing conventional total confinement swine facilities, some producers are seeking alternatives to housing swine. There is interest in the loose housing practice, apparently, successfully applied by some producers. The interest in loose housing is due to the lower initial investment.

Limited information is available, under Manitoba conditions, on the comparative performance and costs of housing gestating sows in loose housing facilities versus the conventional total confinement.

Objective:

The project will compare and monitor different feeding systems and their effects on the productivity of gestating sows housed in loose housing outdoor facilities.

Operational Plan:

After sows are bred they will be divided into one of three feeding systems. The feeding systems compared include: 1) cafeteria style 2) skip a day feeding and 3) daily limited feeding (floor feeding).

Information collected on each treatment group would include:

a) feed consumption and feed cost per sow
b) litter size and litter weights
c) sow weights at weaning and prior to farrowing
d) sow condition scoring at weaning and prior to farrowing
e) rebreeding and breeding problems.

The information collected can be used to compare the productivity and cost of loose housing facilities with the productivity and costs of conventional gestation sow housing.

Project Name: INTERLAKE COW-CALF MANAGEMENT PROJECT

Project Number: FILE 03-7B (12201-05)-04

Duration: 5 YEARS **TOTAL FUNDING:** $151,500 (Prov.)

Location: I.B.C.I.A.
GUNTON TEST SITE

Background: The beef industry has a problem in the area of low herd productivity. Some of the underlying causes that hinder cattle herd performances to their optimum genetic potential are: low reproductive efficiency of cow herds, breeding stock of questionable genetic potential, plus management.

Target:

General — To develop and implement a beef management program to increase herd productivity.

Specific — Development of:

- management program for replacement heifers
- feeding program for early weaned calves
- health program for early weaned calves
- a comparison of an economic analysis of early versus late weaning.

Demonstration of:

- herd health techniques
- pasture management
- cow condition scoring
- feedlot management.

Sponsoring Group: Interlake Beef Cattle Improvement Association (I.B.C.I.A.)

Contact Persons:

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Manager - Gunton Test Station
General Delivery
GUNTON, Manitoba
ROC 1HO
Phone: (204) 467-2527

Kay Salmon
Livestock Specialist
Manitoba Agriculture
P.O. Box 70
TEULON, Manitoba
ROC 3BO
Phone: (204) 886-2696

Project Name: INTERLAKE HEIFER FEEDLOT PROJECT

Project Number: FILE 03-7B (12201-05)-03

Duration: 2 YEARS **TOTAL FUNDING:** $16,700 (Prov.)

Location: I.B.C.I.A.
GUNTON TEST SITE

Background: Traditionally producers either sell heifer calves off cows and receive usually a 10¢ difference in price compared to selling steer calves or they are placed on grass and sold as long yearlings.

If an alternate market is utilized, such as finishing, the spread in price between steers and heifers may often be reduced to approximately 3¢.

Target:

General — To evaluate the potential of feedlot finishing crossbred heifers.

Specific — Development of:

- management techniques for feedlot heifers
- nutrition and health programs for feedlot heifers

Demonstration of:

- herd health
- performance of crossbred heifers in feedlot

Sponsoring Group: Interlake Beef Cattle Improvement Association (I.B.C.I.A.)

Contact Persons:

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ROC 3BO
Phone: (204) 886-2696

PROJECT NAME: DISTRICT FORAGE IMPROVEMENT PROJECT

PROJECT NUMBER: 03-7B(12201-05)05

DURATION: FIVE (5) YEARS

LOCATION: INTERLAKE REGION

BACKGROUND:

There is considerable variation in forage crop production by district. Using local demonstration projects, Agricultural Representatives will be able to demonstrate recommended practices to make significant increases in forage production.

TARGET: GENERAL

To establish one forage demonstration project per agricultural representative district in the Interlake Region for a total of 28 sites, demonstrating recommended forage production practices.

SPECIFIC

To demonstrate:

(1) new forage species
(2) fertilizer management
(3) herbicide/pesticide application
(4) establishment techniques
(5) harvesting and storage techniques
(6) pasture management

SPONSORING GROUP:

Manitoba Agriculture, Interlake Region

CONTACT PERSON:

Project Leader
Gerry Breakey
Regional Forage Specialist
Box 260
ASHERN, Manitoba ROC OEO

Project Manager
Andrew Dickson
Regional Director
Box 2000
ARBORG, Manitoba ROC OAO

TOTAL FUNDING: $70,000 (Prov.)

PROJECT NAME: INTERLAKE BEEF PERFORMANCE EXTENSION PROJECT

PROJECT NUMBER: 03-7B(12201-05)06

DURATION: FIVE (5) YEARS

TOTAL FUNDING: $27,500 (PROV.)

LOCATION: INTERLAKE REGION

BACKGROUND:

The use of performance records is somewhat limited. There is a serious lack of awareness of the value of information generated by various demonstration projects and performance testing programs amongst producers and financial institutions. This project will ensure there is a complimentary extension program to such activities as bull testing, ROP, Triple P and other programs in the region.

TARGET:

To make Interlake livestock producers aware of the value of information provided through performance testing programs and activities.

Specifically the project will demonstrate:

(1) the value of performance records

(2) the utilization of performance records

(3) the use of computerized recording systems in a beef enterprise

SPONSORING GROUP:

Manitoba Agriculture

CONTACT PERSON:

Ray Salmon
Livestock Specialist
Box 70
TEULON, Manitoba ROC 3BO
(204) 886-2696

12201 AGRI-FOOD PROJECT
SUMMARY

PROJECT TITLE: GENETIC IMPACT EVALUATION

FILE NUMBER: 03-7B-12201-08-01

DURATION: January 1, 1986 - December 31, 1990

LOCATION: Manitoba

BACKGROUND:

There are several genetic improvement programs available to beef producers to assist them in increasing herd productivity. These include home test programs, performance test stations for bulls, the Manitoba "PPP" program, and the National Sire Monitoring Program. Several innovative producers have used these programs to achieve more efficient operations.

However, accurate data has not been collected on these farms over successive years to quantitate the benefits these programs can have on Manitoba's beef industry.

By clearly demonstrating the benefits of genetic improvement programs, more producers could be induced to put in the effort needed to enroll and make use of such management tools. Substantial gains in pounds of calf produced per cow and in feedlot efficiency could be realized.

TARGET:

The GIE project will demonstrate the increased productivity which can be achieved on Manitoba beef farms through the use of genetic improvement programs. In cooperation with Manitoba Agriculture, the M.B.C.P.A. will analyse productivity on approximately 40 herds per year. The productivity of these farms will be recorded for the life of the project.

Productivity analysis will be carried out on selected farms which use a variety of genetic improvement programs. Farms not using recognized home, station or progeny testing programs will also be monitored for comparison.

Cooperating producers will receive yearly summaries of the analysis done on their records. Sponsoring agencies and departmental staff will receive compiled summaries of the evaluations broken down by region and by level of participation on improvement programs.

SPONSOR: Manitoba Beef Cattle Performance Association
Box 232
Douglas, Manitoba

CONTACT STAFF:

Marni Donetz
Beef Program Specialist
Animal Industry Branch
Phone: 945-7660

Don Guilford
President, MBCPA
Clearwater, Manitoba
Phone: 873-2430

BUDGET: $86,000.00

12201 AGRI-FOOD PROJECT
SUMMARY

PROJECT TITLE: ASSESSMENT OF DESIGN AND MANAGEMENT OF SWINE SELF-FEEDERS

FILE NUMBER: 03-07-12201-08-02

DURATION: January 1, 1986 - March 31, 1989

LOCATION: Winnipeg area.

BACKGROUND:

Feed utilization accounts for the single largest component of the total production costs of swine finishing units. However, 8 - 30% of the total feed has been estimated to be wasted. Few recommendations have been put forth concerning the necessary design features and operation techniques needed to minimize this problem. Producers are often unaware of the extent of feed wastage as the wasted feed drops directly into the manure disposal system without being observed. Reducing this wastage could increase net producer returns.

TARGET:

This project is designed to demonstrate the effects of proper swine feeder design and management techniques on feed wastage, pig performance and production returns.

Three types of dry self-feeders and one wet self-feeder will be evaluated on a commercial swine finishing unit. Four feeders of each type will be installed. Feeders will be assessed by feed utilization, animal weight gain, and by wastage accumulated in trays under each feeder.

Over a four year period, it is expected that nine batches of pigs (1440 pigs in total) would be fed out using the 16 self-feeders.

A final report with recommendations on feeder design and feeding management will be produced.

SPONSOR: Manitoba Agriculture
Animal Industry Branch

CONTACT STAFF: Dr. Dennis Hacker
Chief, Swine Section
Animal Industry Branch
Phone: 945-7681

BUDGET: $30,000.00

12201 AGRI-FOOD PROJECT
SUMMARY

PROJECT TITLE: MANITOBA SWINE A.I. PROGRAM WITH TECHNICIAN SERVICE

FILE NUMBER: 03-7B-12201-08-09

DURATION: October, 1985 - March 31, 1989

LOCATION: Manitoba, primarily in the Winnipeg area.

BACKGROUND:

Artificial insemination in swine, as demonstrated by many European countries, offers enormous opportunities for improving herd productivity and thus profitabiltiy of Manitoba's hog industry by permitting 1) extensive use of known genetically superior boars; 2) more effective disease control; 3) increased reproductive efficiency; and 4) improved management practices. For the last ten years Manitoba Agriculture has followed an A.I. program by training producers to do their own inseminations. In general, this method has been ineffective.

To gain wide popularity and success, a normal inseminator service, along with a comprehensive training and follow-up service, must be developed prior to implementing a farmer/inseminator program. The Manitoba Swine A.I. Program with Technician Service is a move in that direction.

TARGET:

The Manitoba Swine A.I. Program is designed to demonstrate the increased productivity obtainable through artificial breeding, to increase the acceptance and use of swine A.I., and to evaluate the feasibility of establishing a permanent swine A.I. technician service in Manitoba.

WISSCO will train an A.I. technician in 1985/86, as well as set up procedures for data recording, semen delivery and breeding schedules.

Beginning in May, 1986, technician service will be available to cooperating producer herds. Producers will have to pay for semen costs, however technician costs will be covered by WISSCO in 1986/87, and then cost shared in 1987/88 and 1988/89.

Funding is based on 3000 technician inseminations and 500 producer inseminations per year. Producers can enroll for three years and be eligible for 100 technician inseminations and/or 25 producer inseminations per year. To minimize travel costs, technician service will be available mainly to producers within a 75 km radius of Winnipeg.

SPONSOR: Weanling Improvement Sales and Service Co-op
Room 312
780 Marion St.
Winnipeg, Manitoba

CONTACT STAFF: Dr. Dennis Hacker
Chief, Swine Section
Animal Industry Branch
Phone: 945-7681

Walter Bachynsky
WISSCO
Phone: 235-0367

BUDGET: $90,000.00

12201 AGRI-FOOD PROJECT
SUMMARY

PROJECT TITLE: MANITOBA BEEF PRODUCTIVITY IMPROVEMENT PROGRAM

FILE NUMBER: 03-7B-12201-08-08

DURATION: January 1, 1986 - December 31, 1990

LOCATION: Three herds per region per year.

BACKGROUND:

One of the more serious problems facing the economic viability of Manitoba's beef industry is low herd productivity. The underlying causes are:

1. Poor reproductive efficiency of the cow herd.
2. Utilization of breeding stock with poor genetic potential.

Manitoba has a calf weaning rate of less than 80%, and average weaning weights of less than 450 lbs. There is much room for improvement on most farms. To make the desired productivity improvement, a comprehensive management system must be followed, assisting the producer in analysing the cost:benefit of management changes.

TARGET:

The M.B.P.I.P. is designed to demonstrate the ability of beef producers to increase herd productivity through indepth productivity analysis and counselling.

Working with a team of agriculture professionals (Agricultural Representative, Livestock Specialist, and local veterinarian) the beef producer will identify his current herd productivity and set short and long term goals for improvements.

Herd productivity will be monitored for the three years each farmer is enrolled on the program through the Federal/Provincial ROP program and Beef Efficiency Analysis. To assist the producer meet his goals, a comprehensive nutrition, reproduction and genetic improvement program will be worked out. Manitoba Agriculture will assist the producer by cost sharing feed analysis, pregnancy testing, bull evaluation, estrus synchronization and semen costs through the PPP program.

Results from cooperating herds will be utilized to demonstrate the increased productivity possible with increased management and technological skills on Manitoba farms.

SPONSOR: Manitoba Agriculture
Animal Industry Branch

CONTACT STAFF: John McKinnon
Beef Program Specialist
Animal Industry Branch
Phone: 945-7691

BUDGET: $140,600.00

PROJECT NAME: Transportation Study - Processed Crop Products

PROJECT NUMBER: 13102

DURATION: One (1) year

FUNDING: $17,400 (Federal)

LOCATION: Marketing and Economics Branch, Winnipeg

BACKGROUND: Over the past 20 years, there has been considerable investment in secondary processing facilities in western Canada, particularly for canola products, but also alfalfa pellet plants, special crop facilities and a proposed facility for processing flaxseed. The constraints to marketing of the products fall into four areas:

- physical handling
- transportation
- institutional
- volume/price

TARGET:

1) The proposed study would result in a report for general circulation in the industry, dealing with identification of constraints, options and need for change.

2) The study would be completed and a final report available in the seventh week from authorization to proceed.

SPONSORING GROUPS:

Agriculture Canada

CONTACT PERSON:

Tony van Rosmalen
Manager,
Marketing and Economics (Winnipeg)
303 - 275 Portage Avenue
Winnipeg, Manitoba

(204) 949-3892

PROJECT NAME: Beef Fingers Development

PROJECT NUMBER: 13201

DURATION: Two (2) years

FUNDING: $150,000 (F)

LOCATION: Canadian Food Products Development Centre, Portage la Prairie.

BACKGROUND: Agriculture Canada disappearance statistics shows a per capita decline between 1976 and 1982 of over 21% for beef and an increase of 29% for chicken, due largely to the "chicken fingers". In order to capitalize on this consumer demand, the beef industry is developing a similar product, manufactured from lower cost cuts of beef, using the flaking method to produce restructured beef fingers.

TARGET:

Assess the following:

1) types and cuts of beef most suitable
2) physical parameters of finished products
3) processes for each stage of production
4) additives evaluation
5) composition of coatings
6) methods of preparation
7) microbiological and chemical criteria.

SPONSORING GROUPS:

Canadian Food Products Development Centre, Portage la Prairie
Marketing Branch, Manitoba Department of Agriculture, Winnipeg.

CONTACT PERSON:

Mr. Tony van Rosmalen
Marketing and Economics Branch
Agriculture Canada
303 - 275 Portage Avenue
Winnipeg, Manitoba
R3B 2B3

Phone: (204) 949-3892

PROJECT NAME: Potato Pathogen Detection Laboratory

PROJECT NUMBER: 13301

DURATION: Five (5) years

FUNDING: $250,000 (F)

LOCATION: Winnipeg

BACKGROUND:

The availability of an ample supply of reasonably priced and locally produced seed potatoes is an essential component of Manitoba's expanding seed industry. The annual occurrence of potato diseases seriously threatens Manitoba seed potato production. Additional laboratory support is required to supplement existing disease control programs.

TARGET:

- provide laboratory support to established potato disease programs
- establish grower confidence in seed potatoes certified in Manitoba
- monitor the yearly progress of disease control in seed potatoes produced in Manitoba

SPONSORING GROUPS:

Food Production and Inspection Branch,
Agriculture Canada

CONTACT PERSON:

W.D. Lidgett
F.P.&I., Agriculture Canada
624 - 269 Main Street
Winnipeg, Manitoba
R3C 1B2

(204) 949-3775

PROJECT NAME: Electronic Livestock Identification

PROJECT NUMBER: 13402

DURATION: Two (2) years

FUNDING: $200,000 (F)

LOCATION: Winnipeg

BACKGROUND:

Rail grading of beef has approached 80% of Manitoba's total beef kill. External tatoos and the ear tag are the most prevalent forms of carcass identification. A more reliable and expedient form of identification is currently available but needs to be tested and demonstrated in order to gain producer confidence.

TARGET:

1) Electronic identification device testing and final selection.

2) Integration of the field identification mode with the slaughter facility identification mode.

3) Full system trial from farm gate to grading color.

4) Post trial evaluation and final report.

SPONSORING GROUPS:

Food Production and Inspection Branch,
Agriculture Canada, Winnipeg.

Manitoba Beef Commission, Winnipeg.

CONTACT PERSON:

Mr. Wayne Outhwaite
F.P.&I., Agriculture Canada
603 Federal Building
Winnipeg, Manitoba
R3C 1B2

(204) 949-2212

PROJECT NAME: Manitoba Goose Breeding

PROJECT NUMBER: 13403

DURATION: Four (4) years

FUNDING: $134,200 (Federal)

LOCATION: Morden, Manitoba
Teulon, Manitoba

BACKGROUND: Manitoba is the largest goose producing area in North America. While the greatest percentage of Canada's goose production is consumed domestically, substantial volumes are exported annually. The goose industry must become more efficient by using improved management practises and from the development of a more efficient breed of geese. Goose breeding is considered to be 20-25 years behind the chicken and turkey industries.

TARGET:

1) Establish a goose breeding regime which will produce improved efficiency in the production of heavy and broiler geese.

2) Specific targets of the breeding program are:

- to produce birds maturing at 16-20 weeks
- broiler geese maturing at 9 weeks
- lower carcass fat content
- improved feather quality

SPONSORING GROUPS:

Agriculture Canada
Pembina Poultry Packers Ltd.
Northern Goose Processors Ltd.

CONTACT PERSON:

Gordon McNabb
Agriculture Canada
Food Production and Inspection
624 - 269 Main St.
Winnipeg, Manitoba
(204) 949-7740

PROJECT NAME: Vegetable Marketing Software

PROJECT NUMBER: 13405

DURATION: One (1) year

FUNDING: $50,000 (F)

LOCATION: Winnipeg

BACKGROUND:

The Manitoba Vegetable Producers' Marketing Board is presently using a manual system to process nearly all aspects of its operation. A computer is being installed which will have the capability of handling much of the office operation. A customized software package needs to be developed for the handling of information relating to availability of produce and market flow.

TARGET:

To develop customized software for the Board's new office computer. It will be designed to supply faster and more accurate information on quotas, prices, supplies, customer orders, deliveries, budgeting, etc.

SPONSORING GROUPS:

Manitoba Vegetable Producers' Marketing Board,
Winnipeg

CONTACT PERSON:

Mr. Ken McLean,
General Manager
The Manitoba Vegetable Producers' Marketing Board
1200 King Edward Street
Winnipeg, Manitoba
R3H 0R5

(204) 633-7926

PROJECT NAME: Audio-Visual Library

PROJECT NUMBER: 13406

DURATION: Four (4) years

FUNDING: $30,000 (Federal)

LOCATION: Agriculture Canada, Winnipeg

BACKGROUND: A good audio-visual presentation is one of the most effective means of communication. A pre-requisite is to have available superior quality slides and negatives that can be used to develop promotional material and slide presentations. Past experience has clearly indicated the need for establishing an audio-visual library that will provide a source of material on a wide range of subjects.

TARGET:

1) Produce and catalogue visuals on beef, dairy cattle and purebred swine.

2) Produce and catalogue visuals on special and horticultural crops.

3) Produce and catalogue visuals on food products, agriculture technology.

4) Coordinate all of the above into a library where the material is categorized and catalogued, for quick identication.

SPONSORING GROUPS:

Agriculture Canada

CONTACT PERSON:

Tony van Rosmalen
Manager,
Market Development
303 - 275 Portage Avenue
Winnipeg, Manitoba
R3B 2B3

(204) 949-3892

PROJECT NAME: Manitoba Potato Market Development

PROJECT NUMBER: 13407

DURATION: One (1) year (1985)

FUNDING: $5,000 (Federal)

LOCATION: Winnipeg

BACKGROUND: Manitoba potato growers have experienced some difficulty in capturing the more profitable market for early (new) potatoes. The industry has attempted to correct this problem through promotional efforts and more attractive packaging.

TARGET: The Vegetable Producers' Marketing Board will conduct a promotional campaign to convince the trade to give priority to pre-packaged Manitoba new potatoes over imports.

SPONSORING GROUPS:

Manitoba Vegetable Producers' Marketing Board
Agriculture Canada

CONTACT PERSON:

Tony van Rosmalen
Manager,
Market Development
303 - 275 Portage Avenue
Winnipeg, Manitoba
R3B 2B3

(204) 949-3892

PROJECT NAME: Market Development Implementation

PROJECT NUMBER: 13408

DURATION: Five (5) years

FUNDING: $315,000 (Federal)

LOCATION: Winnipeg

BACKGROUND: Manitoba crop and livestock producers are heavily dependent on export markets for their products. In today's highly competitive market, it is important to seek out new and expanding markets. In many cases this would involve market studies in order to identify the opportunities and constraints that exist. It may be necessary to provide technical expertise and services to assist certain industries in an export program.

TARGET:

1) Provide technical expertise and services to assist in the development of markets for Manitoba Agricultural products.

2) Provide support to specific market development projects, such as:

- Peruvian Dairy Project
- Hay and Forage Marketing Issues
- Swine Breeding Stock Mission
- Jerusalem Artichoke - Feasibility Study
- Bee Maid Honey Distribution
- Vegetable Handling Study
- Manitoba Pulse Growers' Promotion
- Veal Marketing Study

SPONSORING GROUPS:

Agriculture Canada

CONTACT PERSON:

Tony van Rosmalen
303 - 275 Portage Avenue
Winnipeg, Manitoba
R3B 2B3

(204) 949-3892

PROJECT NAME: The Promotion and Development of Conservation Districts in Manitoba

PROJECT NUMBER: 21101

DURATION: 5 years TOTAL FUNDING: $1,000,000 (Provincial)

LOCATION: Agro-Manitoba

BACKGROUND:

In 1976 the Province passed the Manitoba Conservation Districts Act which would provide a focus and a mechanism by which to direct attention to the importance of the need for a comprehensive approach to the management of soil, water and related resources. More recently, the Province established the Manitoba Conservation Districts Authority. The mandate of this agency is to promote and encourage the formation of conservation districts and to assist the districts in planning and implementing resource management plans. The Act stipulates that a newly-established conservation district is required to develop and implement a resource management plan within two years of it being established.

It is the agency's intent to use the planning expertise of government agencies and technical expertise of consulting services to meet this end.

TARGET:

To promote the development of conservation districts in Manitoba through the acquisition of consulting services to provide technical assistance and expertise.

To assist:
a) in the establishment of new conservation districts
b) in the preparation of resource management plans and programs
c) the Authority and conservation Districts in the conduct of research and special studies as required for soil and water conservation practices in Agro-Manitoba

Special:
a) establish 5 new conservation districts by 1990
b) prepare management plans for the 5 existing conservation districts within a 12-month period

SPONSORING GROUP:

Manitoba Conservation Districts Authority, Winnipeg

CONTACT PERSON:

Dr. I. W. Dickson, Executive Director
Conservation Districts Authority
711-330 Graham Avenue
Winnipeg, Manitoba
R3C 4A5

Telephone: (204)945-4948

PROJECT NAME: Soil Management Research

PROJECT NUMBER: 22101

DURATION: Four (4) years

FUNDING: $394,170 (Federal)

LOCATION: University of Manitoba - in various locations in the Province.

BACKGROUND: Soil Erosion has been identified by a "Task Group" on Soil and Water Resources Management as an important ingredient to maintaining a sustainable, arable agriculture. We have no reliable information that can quantify the amount of erosion that has taken place and is taking place or what effect this erosion has on agricultural productivity.

TARGET:

1) The project is designed to obtain information on the rate of soil erosion and its effect on crop yields and soil chemical and physical properties.

2) The information developed will be used by Manitoba Agriculture in promoting soil conservation programs in the province.

SPONSORING GROUPS:

Agriculture Canada Research Station, Brandon
University of Manitoba

CONTACT PERSON:

Dr. Shaykewich
Dept. of Soil Science
University of Manitoba
Winnipeg, Manitoba
R3T 2N2

(204) 474-6054

PROJECT NAME: Sandy Soil Management Research

PROJECT NUMBER: 22103

DURATION: Four (4) years

FUNDING: $405,830 (Federal)

LOCATION: University of Manitoba - various locations in the Province.

BACKGROUND: Sandy soils form a significant portion of Manitoba's land resource. These soils are particularly susceptible to wind and water erosion. A related problem is that of organic matter loss. The objective of this project is to study methods of soil management in order to sustain and enhance arable agriculture on sandy soils.

TARGET:

1) Initiate studies on nutrient requirements of wheat at two major study sites.

2) Initiate studies on erosion and organic matter loss.

3) Conduct field tours of major study sites as appropriate.

SPONSORING GROUPS:

Agriculture Canada Research Station - Brandon
University of Manitoba

CONTACT PERSON:

Dr. G.J. Racz
Dept. of Soil Science
University of Manitoba
Winnipeg, Manitoba
R3T 2N2

(204) 474-6036

PROJECT NAME: Organic Soils Research

PROJECT NUMBER: 22201

DURATION: 3.5 years **TOTAL FUNDING:** $100,000 (Prov.)

BACKGROUND:

1] Organic soils contain large amounts of organic nitrogen which become available over time for crop production. However, during the early part of the growing season when soils are cold, the release of organic nitrogen is slow.

2] Copper is an extremely limiting factor to crop production on organic soils in other areas such as Europe and USA. Investigations have shown copper to also be very limiting in Manitoba peat soils.

TARGET:

General:

To develop fertilizer recommendations which support economic crop production on peat soils.

Specific:

Development of
- nitrogen recommendations for cereals and canola.
- copper recommendations for crop production; this would include the residual effect of a single application.

Demonstration of
- show producers that the organic nitrogen associated with peat soils can be an economic resource.
- increased yields and economic returns through efficient use of nitrogen and copper fertilizer.

SPONSORING GROUPS:

1] The Manitoba Peatland Farming Association
2] Manitoba Agriculture

CONTACT PERSONS:

J. Ewanek
Manitoba Agriculture
908 Norquay Building
401 York Avenue
Winnipeg, Manitoba
R3C 0P8 Phone: 945-3836

B. Sterckeman
Manitoba Peatland Farming Association
Box 760
Steinbach, Manitoba
ROA 2AO Phone: 326-3544

PROJECT NAME: Optimizing Cereal Production

PROJECT NUMBER: 22202

DURATION: Four (4) years

FUNDING: $727,000 (F)

LOCATION: Agriculture Canada Research Station - Brandon

BACKGROUND:

Soil management, fertilizer use and crop type and cultivar selection are agronomic practises that a producer can change to optimize yield and economic return, within the limitations imposed by climate, soil conditions, and the physiological growth potential of a crop. The objective of this project is to develop information that will allow Manitoba producers of wheat, barley, canola and flax to improve yields and profitability in growing these crops.

TARGET:

1) Site selection and evaluation in 1985.

2) 1986 - first cropping year at each site.

3) 1987 - second cropping year.

4) 1988 - final cropping year. Develop statistical analysis of data and publish technical information papers.

SPONSORING GROUPS:

Agriculture Canada Research Station - Brandon

Western Fertilizer and Chemical Dealers Association

CONTACT PERSON:

Dr. L.D. Bailey
Head, Plant-Soil Research Section
Agriculture Canada, Research Station
Box 610
Brandon, Manitoba
R7A 5Z7

(204) 728-7234

PROJECT NAME: Manitoba Escarpment Alluvial Deposit Study

PROJECT NUMBER: 23103

DURATION: One (1) year

FUNDING: $25,000 (Federal)

LOCATION: Pembina, Riding, Duck and Porcupine Mountain areas.

BACKGROUND: The Manitoba Escarpment is situated at the base of the Western Upland formed by the Porcupine Mountain, Duck Mountain, Riding Mountain, and Pembina Hills. The regions are composed of highly erodible alluvial deposits. As a result of very steep slopes, streams which cross the escarpment are characterized by rapid and concentrated run-off from both rainfall and snowmelt. High flows and flow velocities cause the removal and transport of large quantities of shale streambed material. The bulk of this eroded material is deposited in the form of alluvial fans, of which there are between 50 and 60, at the base of the Escarpment.

TARGET:

1) To identify the geomorphologic and hydraulic characteristics of all these fans along the entire Manitoba escarpment to determine the usefulness of and the benefits from the construction of energy dissipation weirs.

2) To prepare a water management brochure for use by Municipal and Watershed Managers in developing water management works.

SPONSORING GROUPS:

Agriculture Canada - P.F.R.A.

CONTACT PERSON:

Mr. Floyd Wilson
P.F.R.A.
401 - Wesley Avenue
Winnipeg, Manitoba
R3C 4C6

(204) 949-3120

PROJECT NAME: Soil Conservation Services

PROJECT NUMBER: 23200

DURATION: Five (5) years

FUNDING: $2,215,000 (Federal)

LOCATION: Province of Manitoba

BACKGROUND: In recent years, concerns have increased about the declining quality and continuing fragility of the Manitoba agricultural land resource base. Improved resource management practises must be developed to ensure the long-run sustainabiity of the agricultural sector. The eventual benefit is expected to result in a stimulation of economic performance of Manitoba agriculture. This Agri-Food project will provide technical expertise and necessary equipment to assist soil conservation groups and individual farmers to implement various soil conservation techniques.

TARGET:

Year 1 - develop contribution guidelines, employ technical staff and promote soil conservation projects.

Year 2 - major soil degradation issues identified and action plans developed with the Province and Soil Conservation Associations.

Year 3 - In cooperation with the Canada-Manitoba Soil Survey, establish benchmark sites to evaluate trends in soil degradation.

Year 4-5 - continue services and evaluate projects.

SPONSORING GROUPS:

Agriculture Canada - P.F.R.A.
Manitoba Agriculture
Soil Conservation Districts

CONTACT PERSON:

Floyd Wilson
Senior Soil Conservationist (Manitoba)
Agriculture Canada - P.F.R.A.
Winnipeg, Manitoba
R3C 4C6

(204) 949-3120

PROJECT NAME: Deerwood Soil and Water Management

PROJECT NUMBER: 23201

DURATION: 5 years (1985-90) TOTAL FUNDING: $249,000 (Fed.)
$120,000 (Prov.)

LOCATION: Escarpment Area -- Deerwood, Manitoba

BACKGROUND:

Historically the escarpment area, head waters of the Tobacco Creek soil erosion, plus run-off in spring and from flash rains, have caused considerable flooding and erosion below escarpment.

OBJECTIVE:

To develop a lasting appreciation and understanding of a total community soil and water management program.

TARGET:

- minimizing unnecessary soil tillage
- establish a shelterbelt program
- control of additional tree clearing
- increased use of forages
- construction of small headwater retention structures
- demonstration of above

ACTION:

Some winter wheat sown, fall '85 --- four water retention structures built.

SPONSORING BODIES:

- Deerwood Soil and Water Association
- Manitoba Agriculture
- P.F.R.A.
- R.M.'s of Thompson and Lorne

CONTRACTS SIGNED:

- Manitoba Agriculture and P.F.R.A.

CONTACT PERSONS:

- Gordon Orchard, President
  Deerwood Soil & Water Assoc.
  Box
  Miami, Manitoba
  ROG 1HO

- Dr. David McKenzie
  P.F.R.A.
  Box 1047
  Morden, Manitoba
  ROG 1JO

- Bob Wheeler
  Agricultural Representative
  Box 189
  Somerset, Manitoba
  ROG 2LO

- Brian Manning, Regional Director
  Central Region
  Provincial Building
  25 Tupper St. N.
  Portage la Prairie, Man.
  R1N 3K1

PROJECT NAME: SOUTH INTERLAKE LAND MANAGEMENT ASSOCIATION

PROJECT NUMBER: 23202

DURATION: 4 years **TOTAL FUNDING:** $180,600 (Fed.); $194,400 (Prov.)

LOCATION: Agricultural Representative Districts of Selkirk, Stonewall and Teulon.

BACKGROUND: The main land limitations within this area are: wind erosion, soil salinity, and soil degradation. As a result, the association feels it is appropriate to; investigate, demonstrate, promote and adapt suitable land management practices for the area.

TARGET:

General

To develop and implement a systematic district land management program to investigate and promote the conservation, maintenance and/or enhancement of the agricultural land base.

Specific

Development of:

- soil conservation practices
- soil salinity management

Demonstration of:

Conservation tillage systems, shelterbelts, residue management, green manures, organic soil management, saline soil management, soil fertility, soil sampling, on farm drainage, and irrigation.

SPONSORING GROUPS:

- Manitoba Agriculture
- P.F.R.A.
- South Interlake Land Management Association
- Warren - Marquette Soil Improvement Association

CONTACT PERSON:

Bryan Yusishen
Land Resource Specialist
Manitoba Agriculture
201 - 446 Main Street
SELKIRK, Man. R1A 2H7

PH: 482-3994

Floyd Wilson
Senior Soil Conservationist
P.F.R.A. Winnipeg Office
401 - 1 Wesely Avenue
WINNIPEG, Man. R3C 4C6

PH: 949-3120

Bill Yule, President, South Interlake Land Management Association
Box 403, **STONEWALL**, Manitoba ROC 2Z0

PH: 467-5698

PROJECT NAME: St. Alphonse-Bruxelles Soil and Water Management Association

PROJECT NUMBER: 23203

DURATION: 5 years (1985-90) TOTAL FUNDING: $87,800 (Fed.) $73,400 (Prov.)

LOCATION: St. Alphonse-Bruxelles area --- R.M. of Lorne and part of R.M. of Argyle

BACKGROUND:

The area is quite rolling with some steep slopes, parts too rough for general agriculture. Severe erosion has taken place on more abrupt slopes.

OBJECTIVE:

To develop a lasting appreciation and understanding of a total community soil and water management program.

TARGET:

- eliminating the practice of summerfallowing and minimizing unnecessary soil tillage practices for the purpose of erosion control.
- gully stabilization
- control of additional clearing of trees
- increased use of forage crops
- possible headwater retention structures

ACTION: Some winter wheat and gully stabilization

SPONSORING BODIES:

- Manitoba Agriculture
- P.F.R.A.

CONTRACTS SIGNED:

- Manitoba Agriculture and P.F.R.A.

CONTACT PERSONS:

- Marcel Cabernel, President
  St. Alphonse-Bruxelles Soil & Water Management Assoc.

- R. A. Bradley
  Area Conservationist
  P.F.R.A. Brandon Office
  Box 275
  Brandon, Manitoba
  R7A 5Z2

- Bob Wheeler
  Agricultural Representative
  Box 189
  Somerset, Manitoba
  ROG 2LO

- Brian Manning
  Regional Director
  Central Region
  Provincial Building
  25 Tupper St. N.
  Portage la Prairie, Man.
  R1N 3K1

PROJECT NAME: TURTLE RIVER SOIL MANAGEMENT PROJECT

PROJECT NUMBER: 23204

DURATION: five years **TOTAL FUNDING:** $127,940 (Fed.)
$ 40,000 (Prov.)

LOCATION: TURTLE RIVER WATERSHED CONSERVATION DISTRICT

BACKGROUND:

The Turtle River Watershed Conservation District covers an area of about 235,000 hectares. Dramatic soil losses have occurred in the past due to wind erosion and 85% of landowners surveyed in the area report they have less than 6" of topsoil remaining.

TARGET: **General**

To establish amongst area land owners good soil conservation management techniques which will combat erosion problems on their farms.

Specific

Development of:

-- wind erosion control techniques such as conservation tillage, trash management, sweet clover plowdown, field shelterbelts, strip cropping.

-- water erosion control techniques such as grassed waterways

Demonstration of:

-- soil conservation demonstrations which include conservation tillage and trash management, sweet clover plowdown and field shelterbelts. These are located on three individual sites.

SPONSORING GROUPS:

-- Turtle River Watershed Conservation District
-- Manitoba Agriculture
-- P.F.R.A.

CONTACT PERSON:

Rodger Sheldon
Manitoba Agriculture
Box 180
Ste Rose, Man.
ROL ISO
Phone: 447-2116

Erwin Allerdings
Soil Conservationist
P.F.R.A.
317 Main st.
Dauphin, Man.
R7N 1C5
Phone: 638-6108

PROJECT NAME:

Southwest Region Soil Management Project

PROJECT NUMBER:

03-7B-23206-02

DURATION:

Five years

TOTAL FUNDING:

$173,000 (Prov.)

LOCATION:

Southwest Region

BACKGROUND:

Soil degradation due to erosion and salinity are major concerns. Tillage levels are high with 10 - 20% of crop land in summerfallow. Approximately 5 - 6% of soils are salt affected. Higher inputs are required to offset effects of soil degradation.

TARGET:

General - To develop and demonstrate tillage and other soil management practices that will support soil conservation and improve saline areas while meeting agronomic and economic constraints.

Specific - Develop - conservation tillage recommendations
- recommendations for saline soil management
- Demonstrate - use of conservation till practices used on zero or minimum till
- use of management practice that will improve saline areas

SPONSORING GROUPS:

- Manitoba-North Dakota Zero Till Association
- Manitoba Agriculture

CONTACT PERSON:

Owen Beever
Manitoba Agriculture
1129 Queens Avenue
BRANDON, Manitoba R7A 1L9
Phone - 728-5724

AGRI-FOOD DEVELOPMENT AGREEMENT - PROJECT SUMMARY

PROJECT NAME: Cowan Soils and Water Conservation Project

PROJECT NUMBER: 23207

DURATION: Four years TOTAL FUNDING: $107,600 (Fed.); $31,200 (Prov.)

LOCATION: Cowan area

BACKGROUND:

The agricultural lands along the North Duck River near Cowan, Manitoba, are prone to periodic stream overflows and subsequent flood damage and erosion. Flooding generally occurs following heavy rains in June and July after crops have been seeded. Flooding rarely occurs during spring snowmelt.

Flooding has caused destruction or reduced yields of crops, resulting in loss of topsoil and gullying, destroyed standing and harvested hay, reduced pasture availability, damage to various private and public property, scattered debris and disrupted transportation and community services.

TARGET:

To develop and implement a combined on-farm soil and water management scheme to rehabilitate, conserve and enhance the land base for its long term productivity.

This will include:

- river bank stabilization and protection
- reshaping and seeding down actively eroding gullies into manageable forage producing waterways
- river debris cleanout and where feasible, side dyking of critical area breakout locations to maintain the flow capacity within the channel
- implementation of forage for contour cropping and strip farming of erosion susceptible fields

- assistance in the removal of flood waters from arable fields
- a field scale demonstration showing economics of conservation tillage vs conventional tillage practises

SPONSORING GROUPS:

- Cowan Soils and Water Conservation Co-Operative
- P.F.R.A.
- Manitoba Agriculture

CONTACT PERSONS:

Stephanie Jersak,
Manitoba Agriculture
Box 370
Swan River, Manitoba
ROL IZO
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Erwin Allerdings
P.F.R.A.
100 Federal Building
Dauphin, Manitoba
R7N IC5
Phone: 638-6108

Ted Romak, Board Chairman
Cowan Soils & Water Conservation Co-Op
Box 115
Cowan, Manitoba
ROL OLO
Phone: 569-4898

WHITEMUD WATERSHED CONSERVATION DISTRICT

Soil Management Project
23210

The overall objective of the project is to demonstrate techniques and management practices that motivate landowners to utilizes these techniques and practice to solve their on-farm wind erosion problems and enhance the agricultural capability of the land.

The techniques of conservation tillage would be demonstrated to increase surface crop residue and organic matter levels in the soil profile to provide adequate wind erosion protection and enhance soil structure. The conservation tillage concept attempts to keep distribution of the soil at a minimum level, thus providing good surface protection against losses to wind erosion.

The most serious land problem in the Whitemud Watershed is soil erosion. The conservation District area encompasses 711,495 hectares (2400 square miles). The area includes 15 rural municipalities extending north to south from Kelwood to Carberry and east to west from Minnedosa to the Portage diversion. There are 8 sub-districts determined by drainage basins of the major tributaries of the Whitemud River.

TOTAL FUNDING: $80,500 (Fed.)
$67,300 (Prov.)

PROJECT NAME: FLOOD INDUCED SALINITY ABATEMENT

PROJECT NUMBER: 23211

DURATION: four years **TOTAL FUNDING:** $110,000 (Fed.)
$ 86,500 (Prov.)

LOCATION: Delta Marsh area

BACKGROUND:

Historically there have been wide fluctuations in Delta Marsh water levels. As a result, furbearing animals, waterfowl, and people using the marsh have been at times adversely affected.

TARGET: General

To develop and implement a land use strategy to reconcile the legitimate interests of farmers, environmentalists, wildlife groups and recreational users.

Specific

Development of:

-- recommendations for saline soil management
-- conservation tillage practices
-- reduced tillage costs through minimum or zero till practices

Demonstration of:

-- land use alternatives to what is now primarily a grain and special crops economy in transition areas
-- increased use of hay crops on saline soils
-- grass varieties as green manure crops
-- how salinity may be controlled in similar situations elsewhere

SPONSORING GROUPS:

-- Delta Agricultural Conservation Co-op
-- P.F.R.A.

CONTACT PERSON:

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Phone: 857-9711, ext. 269

Bob Bradley
P.F.R.A.

PROJECT NAME: Pembina Soil and Crop Management Association

PROJECT NUMBER: 23212

DURATION: Five Years (1985 - 1990) TOTAL FUNDING: $ 60,500 (Fed.)
$ 76,900 (Prov.)

LOCATION: Rural Municipality of Pembina

BACKGROUND:

Pembina Municipality has rolling plains to very steep slopes, and the Pembina River runs through the R.M. Water and wind erosion are a problem. The Pembina Forage Association, in existance since 1979, worked towards stabilization and improvement of soils by planting forage, gully stabilization and improved fertility.

OBJECTIVE:

To develop a lasting appreciation and understanding of a total community soil and water management program.

TARGET:

- minimizing unnecessary soil tillage
- implement an organized gully stabilization program
- control additional tree clearing
- institute a field shelterbelt program
- increased use of forages

ACTION:

Small amount of rota-tilling and treflan application in preparation for 1986 trees.

SPONSORING BODIES:

- Manitoba Agriculture
- P.F.R.A.
- R.M. of Pembina
- Town of Manitou

CONTRACTS SIGNED:

- Manitoba Agriculture and PFRA

CONTACT PERSONS:

- Laurie Lea, President
  Pembina Soil & Crop Management Assoc.
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  ROG 1GO

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  Morden, Man.
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PROJECT NAME:

Elgin Plains Soil Management Project

PROJECT NUMBER:

03-7B-23213-02

DURATION:

Five years

TOTAL FUNDING:

$100,650 (Fed.)
$103,000 (Prov.)

LOCATION:

Elgin Creek Watershed

BACKGROUND:

A major crop producing area with a high level of inputs including tillage. Soil management problems are typical of dryland farming areas and include localized spring flooding, salinity, wind and water erosion, etc.

TARGET:

General - To develop and demonstrate soil management practices that support soil and water conservation while meeting agronomic and economic constraints.

Specific - Develop - conservation tillage recommendations
- recommendations for saline soil management

- Demonstrate - practices such as conservation tillage, field shelterbelts, etc that will reduce wind and water erosion
- use of management that will improve saline areas
- use of small dams to temporarily hold back spring run-off and prevent erosion

SPONSORING GROUPS:

- Elgin Plains Soil Management Association
- Manitoba Agriculture
- P.F.R.A.

CONTACT PERSONS:

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Bob Bradley
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PROJECT NAME: CUSTOM SOIL SAMPLING SERVICE

PROJECT NUMBER 23214

DURATION: Five Years TOTAL FUNDING: $27,000 (Prov.)

LOCATION: One Per Region (Total of Five)

BACKGROUND:

Less than 20% of the provinces farmers use the Provincial Soil Testing Services in any given year. One of the major obstacles limiting such use is the difficulty often encountered in obtaining samples to the recommended 60 cm depth. Without proper sampling and subsequent sample handling recommendations provided can be very misleading and have a significant negative economic impact if followed.

TARGET: General

To evaluate the concept of having an independent sampling service available to producers on a fee-for-service basis.

Specific

-- To increase the number of producers using soil testing as a basis for applying fertilizer to crops and thereby make more profitable use of their fertilizer investment.

-- To increase confidence in the quality of soil samples submitted to the laboratory and thereby in the recommendations provided.

-- To provide a larger base for assessing the annual fertility status of soils and thereby improving general fertilizer recommendations.

SPONSORING GROUPS:

-- Pembina Soil and Crop Management Association
-- South Interlake Land Management Association
-- Agassiz Soil and Crop Improvement Association
-- Roblin Weed Central Board
-- Marco Grassland Society

CONTACT PERSON:

Ken McGill
Manitoba Soil Testing Laboratory
University of Manitoba
Winnipeg, Manitoba
R3T 2N2
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John Ewanek
Soil and Water Management
Department of Agriculture
915 Norquay Building
Winnipeg, Manitoba
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PROJECT NAME: EASTERN GRASSLAND SOCIETY SOILS MANAGEMENT DEMONSTRATION

PROJECT NUMBER: 23215-04-01

DURATION: 5 years TOTAL FUNDING: $122,820 (Fed.); $91,900 (Prov.)

LOCATION: Eastern Region

BACKGROUND: The Eastern Region has a diverse soil base which requires good soil fertility management for optimum crop production. Increased crop production on class 4, 5 and 6 soils in particular has economic potential provided good fertility management.

TARGET: General - Through the application of soil fertility technology increased economic crop production has potential.

Specific - Demonstrations of:

- Efficient use of fertilizers and legumes in crop rotations to improve soil structure and fertility.
- Conservation tillage by direct drilling on erosion prone soils and specialized equipment on organic soils.
- Forage improvement on class 4, 5 and 6 soils by various low cost methods.

SPONSORING GROUP: Eastern Grassland Society

CONTACT PERSONS:

Les Kurbis, President
Eastern Grassland Society
Box 50
Beausejour, Manitoba
ROE OCO

Fraser Stewart
Manitoba Agriculture
Box 50, 20 First St. S.
Beausejour, Manitoba
ROE OCO

PROJECT NAME: STUARTBURN-PINEY AGRICULTURAL DEVELOPMENT ASSOCIATION (SPADA) SOIL AND WATER MANAGEMENT PROJECT

PROJECT NUMBER: 23216

DURATION: 5 years TOTAL FUNDING: $72,150 (Fed.); $92,000 (Prov.)

LOCATION Vita, Manitoba

BACKGROUND: Farmers in the Stuartburn-Piney Agricultural Development Association district require improved water and soils management practises.

TARGET: General - To develop improved practises such as:
- on-farm drainage where feasible
- cropping programs for land not capable of being drained
- lower cost tillage on marginal soils
- lower cost development methods

SPONSORING GROUPS: Stuartburn-Piney Agricultural Development Association and PFRA

CONTACT PERSONS:

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Chairman
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Wally Happychuk
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ROA 2KO

WASHOW - ICELANDIC SOIL & WATER MANAGEMENT PROJECT

PROJECT NUMBER 23217

PROJECT DIRECTOR **Andrew T. Dickson**
Regional Director
Manitoba Agriculture
Interlake Region

PROJECT LEADER **Gerald Huebner**
Agricultural Representative
Manitoba Agriculture
ARBORG, Manitoba

This project is a comprehensive Soil and Water Management demonstration program. It is one of the proto-type conservation districts being promoted under the Agri-Food Agreement.

Activities include major work on formal district establishment, Soil Conservation Demonstrations, On-Farm Drainage Demonstrations and Communication activities. The district establishment is an integral part of the project in that the objective for the project is to develop an orderly and systematic soil and water management plan for the watershed.

Soil and Water Demonstrations will include: Management of Organic Soils, Soil Conservation Demonstrations, Climatological Monitoring, Detailed Farm Planning Assistance and On-Farm Drainage Demonstrations.

The project is managed by an Advisory Committee comprised of six producers and three Municipal Councillors. Project funding is from Manitoba Agriculture and P.R.F.A.

Any questions should be directed to G. Huebner at 376-5211.

TOTAL FUNDING $170,700

$ 59,700 (Fed.)
$111,000 (Prov.)

PROJECT NAME: MAINTAINING TRASH COVER FOR IMPROVED SOIL & WATER MANAGEMENT

PROJECT NO.: 23220

DURATION: 4 YEARS TOTAL FUNDING: $54,300 (Prov.)

LOCATION: NORTHWEST REGION

BACKGROUND:

In Manitoba, 1.8 million hectares (4.5 million acres) of land are subject to wind and water erosion. Approximately 40% of this acreage has already been seriously damaged. One of the major causes of erosion on the prairies is excessive tillage and the resultant lack of a protective vegetative cover on farmland.

TARGET: General

To demonstrate to farmers the most efficient methods of tillage and trash management for preparing a seed bed to suit the farmer's seeding equipment, and at the same time maintain a minimum trash cover for soil protection from wind and water erosion.

Specific

Development of:
- soil and water management demonstrations by practicing good stubble and trash management in areas where inappropriate tillage practices, stubble burning, and excessive use of bare summerfallow are being utilized.
- an economic evaluation of improved trash management compared to the conventional tillage practices.

Demonstration of:
- improved straw and chaff spreading.
- reduced number of tillage operations.
- selecting the right implement to do the job.
- retain standing stubble to trap snow on coarse textured soils.

SPONSORING GROUPS:

Manitoba Agriculture, Northwest Region

Farmer Group Co-operators

CONTACT PERSON:

Neil J. Bell, Land Resource Specialist
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Otto Penner, Agricultural Rep.
110 Assiniboine E
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Jan 86

PROJECT NAME: Dufferin Soil Management

PROJECT NUMBER: 23221

DURATION: Four Years (1985 - 1989) TOTAL FUNDING: $93,600 (Fed.)
$ 4,500 (Prov.)

LOCATION: R.M. of Dufferin

BACKGROUND:

The R.M. of Dufferin is located near the western edge of the Lake Agassiz Basin. Soil ranges from clay to light sandy loams to sand. Considerable special crops are grown and wind erosion has been a major problem.

OBJECTIVE:

To develop a lasting appreciation and understanding of a total community soul management system.

TARGET:

- block plant as much of the area as possible with field shelterbelts (100 miles a year)
- increase annual cover crops
- use of annual shelterbelts
- crop rotation and stubble management demonstration

ACTION:

Approximately 110 miles of field shelterbelts are planned for spring of '86 -- nearly all surveyed and staked.

SPONSORING GROUPS:

- Manitoba Agriculture
- P.F.R.A.
- R.M. of Dufferin

CONTRACTS SIGNED:

- P.F.R.A.
- Manitoba in spring of '86

CONTACTS:

- William K. Roth
  Reeve, R.M. of Dufferin
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  ROG OJO

- Dr. Dave McKenzie
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- Ed Taillieu
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  R1N 3K1

Jan 86

PROJECT NAME: Winkler Soil Management

PROJECT NUMBER: 23222

DURATION: Four Years (1985 - 1989) TOTAL FUNDING: $84,500 (Fed.)
$ 4,500 (Prov.)

LOCATION: The Altona Light Sandy Loams and Altona Fine Loams --- north and south of Winkler, Manitoba.

BACKGROUND:

The area is level topography of lacustrine light sandy loam and fine loam soils. Special crops such as potatoes, sugarbeets, onions, and corn are grown extensively. Soil erosion by wind has been a major problem.

OBJECTIVE:

To develop a lasting appreciation and understanding of a total community soil management program.

TARGET:

- block plant as much of the area as possible with field shelterbelts.
- increase annual cover crops
- use of annual field shelterbelts
- crop rotation demonstration

ACTION:

Thirty-eight miles rota-tilled and treflaned fall of '85, in preparation for field tree shelterbelts in spring of '86.

SPONSORING GROUPS:

- Manitoba Agriculture
- P.F.R.A.
- Stanley Agricultural Society

CONTRACTS SIGNED:

- P.F.R.A.
- Manitoba in April '86

CONTACTS:

- Peter Schmidt
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  Winkler, Man.
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PROJECT NAME: Minitonas Farmland Conservation

PROJECT NUMBER: 23223

DURATION: 4 Years Total Funding: $107,300 (Fed.); $40,000 (Prov.)

LOCATION: R. M. of Minitonas

BACKGROUND:

The R. M. of Minitonas contains land that is subject to severe wind and water erosion. Approximately 10,000 acres that are presently improved have slopes greater than 3 percent. Exposed soils on such lands run a moderate to severe risk of incurring damage from overland water flow. Approximately 13,000 acres of farmland are fine and medium textured sands and subject to wind erosion. A key ingredient to reducing or eliminating soil degradation in the area would be the provision of a sound soil and water management strategy that would minimize the damage resulting from soil erosion while retaining the economic viability of the affected farm operations.

TARGET:

1. To protect croplands from wind and water erosion by maintaining adequate amounts of crop residue on the soil surface.

2. To promote the utilization of a variety of on-farm soil conservation practices in addition to crop residue management that will aid in reducing topsoil losses resulting from wind and water erosion.

3. To increase the organic matter content and improve available crop nutrients within degraded cropland soils.

4. To rehabilitate on-farm actively eroding gullies and badly eroded croplands located in low-lying areas adjacent to streams.

5. To facilitate good soil management by installing a system of properly designed and licensed on-farm drains.

6. To re-establish vegetative buffer zones on farmlands along the creeks and rivers to reduce streambank erosion and stream sedimentation and siltation.

SPONSORING GROUPS:

R. M. of Minitonas
P.F.R.A.
Manitoba Agriculture

CONTACT PERSONS:

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c/o Mr. Norman Bruce, Secretary-Treasurer
Rural Municipality of Minitonas
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PROJECT NAME: Pasquia Polder III Reclamation Project

PROJECT NUMBER: 24101

Project Objective: To improve the land base by drainage reclamation to enable the development of about 18,000 acres of land for stable, viable, agricultural crop production.

Project Proponent: Manitoba Water Resources Branch, in cooperation with PFRA, Canada.

Background and Rationale: A February, 1984 Summary Report, prepared by the Manitoba Water Resources Branch, and based on joint studies with Manitoba Agriculture and PFRA, indicated that draining the 36 square mile area Pasquia Lake area, near The Pas, for intensive agricultural development would be economically viable, with an estimated benefit-cost ratio of 2.4. As a result of the project, approximately 18,000 acres of additional land in Polder III would be developed for agricultural use, producing crops comparable to those in Polders I and II and providing net benefits of about $1.2 million annually. The expanded farm acreage would add support to the local farm-related service industries and animal health services, thereby benefitting the entire farming and urban community.

Project Description: The project includes the enlargement of the 12.5 mile long Pasquia Lake Drain, the reconstruction of about 14 miles of existing lateral drains, and the construction of about 10 miles of new lateral drains. A pumping plant of 300 cfs capacity will be constructed at the outlet of the Pasquia Lake Drain into the Pasquia River, and a second pumping plant, 400 cfs capacity, would be constructed at the outlet of the Pasquia River to the Saskatchewan River. The project will include various ancilliary works and structures such as a control structure at the outlet of Big Lake, drain crossings, some access roads, and a number of through-dyke culverts. Big Lake, located west of the project, will be developed as a spring flood storage reservoir. On-farm drains will be developed by private landowners once the lands are allocated subsequent to completion of the project. The estimated capital cost of the project is approximately $4.6 million.

Project Development: The project will be constructed jointly by Manitoba Natural Resources and PFRA under the Economic Regional Development Agreement (ERDA), Agri-Food Subagreement. PFRA will construct the two pumping plants, subject to a maximum expenditure of $1.9 million. Manitoba is responsible for constructing, at its cost, the remainder of the project. The project will be developed over a four year period between 1986 and 1990. A Project Monitoring Committee and a Regional Advisory Committee have been established to assist in the development of the project. The project includes provisions for a waterfowl crop damage prevention program.

PROJECT NAME: Washow-Icelandic Water Development

PROJECT NUMBER: 24102

Project Objective: To enhance agricultural productivity in the Washow Bay Drain watershed through improved water management.

Project Proponent: Manitoba Water Resources Branch in cooperation with Manitoba Agriculture.

Background and Rationale: In recent years, about 120 farmers in the Washow Bay area have experienced serious crop losses, mostly as a result of excess moisture conditions during the growing and harvest seasons, and partially as a result of backwater caused by high water levels on Lake Winnipeg concurrent with heavy rains. The affected area totals about 180 square miles, of which about 50 percent is in agricultural cropland, improved pasture, and grassland.

Project Description: A drainage system improvement project will be developed in which all three components of the system, including the provincial waterways, the municipal drains, and the on-farm drains will be upgraded to current agricultural standards which are based on soil type, soil capability for agriculture, climatic conditions, and land use. The project will affect about 55 miles of provincial waterways and about 150 miles of municipal drains, and will include a major diversion of the Washow Bay Drain directly east to Lake Winnipeg. Also included will be some dyking of areas near Lake Winnipeg, as well as the provision of temporary pumping capability to assist drainage from these areas during periods of high lake level. The project's benefit-cost ratio has been computed to be 1.3. The $6.2 million capital cost will be borne by the Province, the local governments, and the landowners. If funded under normal circumstances, the respective shares would be $4.0 million, $1.7 million, and $0.5 million. Of the $4.0 million provincial waterway portion, $2.0 million is identified under the Agri-Food Agreement to finance the first phases of the project.

Project Development: The project will be developed in four phases over a seven year period between 1986 and 1992. The Manitoba Water Resources Branch is responsible for constructing the project and Manitoba Agriculture is responsible for coordinating local support and for providing technical assistance with respect to the construction of on-farm drains.

PROJECT NAME: North Duck River Headwater Storage

PROJECT NUMBER: 24103

Project Objective: To reduce the severity and frequency of damages associated with flooding and erosion of agricultural land along the lower North Duck River, by constructing a headwater storage dam in the upper reaches of the watershed.

Project Proponent: Manitoba Water Resources Branch, in cooperation with Manitoba Agriculture.

Background and Rationale: Flash flooding along the North Duck River east of the Duck Mountains is a recurring natural phenomenon, typical of areas below the escarpment. In the past, the channel capacity along the flatter reaches of the lower North Duck River has been exceeded approximately four out of ten years on the average, affecting approximately 6500 acres of fertile cultivated land and causing extreme hardships to the approximately thirty farmers who operate this land. The extreme flooding and erosion affect real property, cause crop losses, increase costs of farm operation, erode farmland, disrupt transportation and community services, and affect fish spawning habitat.

Project Description: The project will consist of a 14 metre high earth dam to store water in the headwaters of the North Duck River. The estimated cost of this dam is $945,000. The dam will prevent all flooding approximately 75 to 80 percent of the time, and reduce the frequency and severity of flooding at other times. The present value of these reduced damages is approximately $870,000. The project's estimated benefit-cost ratio is about 0.9.

Project Development: The Engineering and Construction Branch of the Department of Natural Resources is presently undertaking detailed geotechnical investigations and additionial preliminary designs, cost estimates, and other investigations necessary to confirm the technical feasibility of constructing the proposed headwater storage reservoir. An environmental impact study will be undertaken before construction of the project is approved. The time frame for construction surveys, geotechnical investigations, design, construction, and all related activities would be about three years.

PROJECT NAME: FARM BUSINESS GROUP PROGRAM

PROJECT NUMBER: 31100

DURATION: 5 years TOTAL FUNDING: $850,000 (Prov.)

LOCATION: Throughout Rural Manitoba, via Agricultural Representatives or other regional staff

BACKGROUND:

The Farm Business Group program is a two-year program specifically designed to teach participating farm family members basic skills in farm management and improve farm decision making on a day to day basis.

The first year consists of 5 compulsory lessons as follows:

(1) The role and importance of farm management.

(2) How financial statements are used to manage a farm business.

(3) The essentials of planning and budgeting to develop a profitable farm plan.

(4) Use of farm credit, including risk and security.

(5) Grain marketing and selling strategies used in marketing farm production.

Additional lectures are optional.

During the second year, participants will be assisted in developing their own farm plans utilizing a micro computer and information learned during the first year. Additional lectures on various topics are optional.

Lecturers are Agricultural Representatives assisted by Home Economists and regional specialists.

TARGET:

1500 farm families, with priority going to younger, beginning farmers or those needing training in financial management, with an opportunity to upgrade their financial and farm management knowledge and skills.

SPONSORING GROUPS:

-- Manitoba Agriculture

CONTACT PERSON:

Local Agricultural Representative or Home Economist.

PROJECT NAME: FARM FAMILIES 87 - LIVING SUCCESSFULLY (HOME STUDY PROGRAM)

PROJECT NUMBER: 31201-01-09

DURATION: January - March 1987 TOTAL FUNDING: $19,450 (Prov.)

LOCATION: Throughout Manitoba

BACKGROUND:

The home study format offers the advantage of learning in the personal and confidential setting of home, at a time convenient to the family. This home study, which views farming as a lifestyle and as an occupation, is designed to provide an opportunity for rural families to set realistic goals, develop an organizational plan and use sound management principles in their businesses and help families to alleviate the financial pressures and symptoms of distress.

This program will provide the impetus for family members to explore and understand the interrelationships of family and farm, and the pressures and stress now affecting those in farming and other businesses. Time commitments, financial involvements, physical labor, and personal investment will all be examined to determine the impact on the family.

TARGET:

700 young and beginning farm families between ages 25 and 40 years who wish to improve their personal and business management skills to cope with change, reduce stress and make better decisions.

SPONSORING GROUPS:

-- Manitoba Womens Institutes
-- Manitoba Agriculture

CONTACT PERSONS:

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Training & Programs Co-ordinator,
Home Economics Section,
Manitoba Department of Health,
219 - 880 Portage Ave.,
Winnipeg, Man.

Phone: 945-8598

Gwen Parker, Executive Secretary,
Manitoba Womens Institutes
219 - 880 Portage Ave.,
Winnipeg, Man.

Phone: 945-8976

PROJECT NAME: PROVINCIAL FARM WOMEN'S CONFERENCE

PROJECT NUMBER: 31201-02-09

DURATION: Conference November 1986 TOTAL FUNDING: $10,000 (Prov.)

LOCATION: Portage la Prairie, Man.

BACKGROUND:

Success on the family farm requires that both technical information and the goals and needs of the family be considered. Farm women are actively involved in the farm business. As well, farm women carry out a large number of family and community responsibilities. Farm Women's groups have identified the need for more knowledge in the areas of farm business management, production and family relationships. They have also expressed the need to develop skills in the areas of goal setting, family communication, stress management, raising children and managing the money squeeze.

With all these demands, farm women have expressed a need for knowledge and support to help them cope.

The purpose of the conference is to provide an opportunity which will allow farm women to share ideas, experiences and knowledge with other farm women.

TARGET:

200 to 350 farm women, with primary emphasis on those in the 20 - 45 age group, representing younger and beginning farm families.

SPONSORING GROUPS:

-- Farm Women's Organization
-- Manitoba Agriculture

CONTACT PERSONS:

Paulette Connery,
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Box 854,
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Jennifer Zilm,
District Home Economist,
Manitoba Agriculture,
1129 Queens Ave.,
Brandon, Man.
R7A 1L9

Phone: 728-5724

PROJECT NAME: Regional Farm Family Seminars (Interlake)

PROJECT NUMBER: 31301-05-01

DURATION: Five years TOTAL FUNDING: $10,000 (Prov.)

LOCATION: Teulon, for first year - move around Interlake

BACKGROUND:

The family farm has long been seen as the backbone of the Agriculture business. To support this unit, there is a need to aim educational endeavors at the total unit - both husband and wife in areas that will strengthen their relationship.

TARGET: General

To provide education in farm business and family relationships. Strengthening these skills enables farm families to cope with daily tasks - improve their lives and farms.

Specific

In this first seminar "Doing the best things in the worst of times" topics will range from

— coping strategies
— family team work
— positive attitude
— helping each other through support groups, neighbours

SPONSORING GROUPS:

— Winnipeg - Interlake Region Women's Institute

CONTACT PERSON:

Marg Salway
Manitoba Agriculture
Box 260
Ashern, Manitoba
ROC OEO

Phone: 768-2747

PROJECT NAME: CENTRAL REGION FARM FAMILY SEMINAR

PROJECT NUMBER: 03-7B-31301-03-01

DURATION: five years **TOTAL FUNDING:** $10,000 (Prov.)

LOCATION: Carman, Manitoba

BACKGROUND: The "Farm Finance and Technology Management" Task Group Report of October, 1983, indicates a concern about the level of stress that it perceives to exist in the farm community.

For the farm family, business and personal life skills are critical in coping with today's stresses of the difficult economic climate, rapidly changing technology and changing values and attitudes.

TARGET: General

That farm families in Central Region attending these seminars will use sound personal management skills to reduce stress, cope with change and improve farm management decisions. These better quality management decisions will result in improved profits on the farm.

Specific

Educational events will be offered, by direction from farmers and from past evaluations, to cover such topics as:

- dealing with stress
- inter generational farming
- time management
- inter personal communications
- role of today's women on the farm
- husband/wife partnerships
- promoting the farm image to important others
- others

SPONSORING GROUP: Central Region Farm Family Group

CONTACT PERSON: Linda Sprung
Home Economist
Manitoba Agriculture
Box 1359
MORDEN, Mb. ROG 1JO

Phone: 822-5461

PROJECT NAME: Dauphin Agricultural Society's Farm Family Seminar

PROJECT NUMBER: 31301

DURATION: 5 years **TOTAL FUNDING:** $10,000 (Prov.)

LOCATION: Dauphin and community

BACKGROUND:

Since the 1970's, the uncertain unstable environment for farmers has been created by increasing input costs, fluctuating markets, deflating land prices and double digit interest rates. Farm families often found themselves in a state of depression, not knowing whether there is any future for them in farming.

Dauphin Agricultural Society directors saw a need to provide interaction opportunities for farm families where sharing of concerns can be aired and feelings of confidence can be re-instated, simply through communication.

TARGET:

Rather than be referred to as just a "Fair Board," the directors wanted to become involved in creating an atmosphere for learning opportunities, where farm families would want to participate and to seek help in coping with the stresses of modern day farming. In simple terms, to provide an arena for mutual communication and sharing of farming concerns amongst farm families.

Specific Targets

- To develop diverse agricultural learning opportunities, specifically for farm women.
  - "Cow Know-How" - mini herd health course
  - "Basic Bookkeeping" - for those who dislike keeping farm records
- To develop better attitudes towards the stresses of farming.
  - "Only a Peach" - referring to farmers' lifestyles relative to the highly mechanized technology.
  - "So You Married a Farmer" - lifestyle rather than monetary recognition.
- To develop broader business knowledge and experience.
  - Marketing Outlook
    Futures Trading
    Biotechnology in animal production
    Continuing Education
    Telidon and Grassroots Infomart

TARGET: Specific Targets

- To develop understanding of resource management
  - "Soil at Risk" - Canada's eroding future

SPONSORING GROUPS: Dauphin Agricultural Society

Dauphin Women's Institute

Dauphin-Ochre Weed Control Board

The Bank of Nova Scotia

Manitoba Agriculture

CONTACT PERSON:

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Dauphin, MB
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Peter Kiez
Agricultural Representative
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R7N 3E5

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PROJECT NAME: Natural Air Grain Drying Software

PROJECT NUMBER: 32103

DURATION: One (1) year

FUNDING: $21,200 (F)

LOCATION: Department of Agricultural Engineering, Winnipeg

BACKGROUND:

The use of natural air for the drying of grains and oilseeds has become very popular in manitoba during the last five years. There are many advantages to natural air drying. Further refinement of a computer simulation program is required to make this system available to a greater number of farmers in Manitoba.

TARGET:

To develop and test computer software to permit the calculation of minimum drying times and minimum airflows to achieve specified moisture levels.

SPONSORING GROUPS:

Regional Development Branch, Agriculture Canada

Manitoba Department of Agriculture

Department of Agricultural Engineering, University of Manitoba

CONTACT PERSON:

Mr. Al Matheson
Regional Development Branch
Agriculture Canada
303 - 275 Portage Avenue
Winnipeg, Manitoba
R3B 2B3

(204) 949-3891

PROJECT NAME: Solomon Sinclair Farm Management Institute

PROJECT NUMBER: 33203

DURATION: Five (5) years

FUNDING: $1,035,050 ($242,800 Federal)
($741,000 Industry)
($ 51,250 U of M)

LOCATION: Department of Agricultural Economics,
University of Manitoba

BACKGROUND: The primary objective of the SSFMI is to promote the development of farm management skills. The Institute will provide an immediate contribution in problem identification and methodology for problem solution. It will be a valuable centre of excellence for researchers, graduate students and extension staff willing to become involved in developing new tools and making this knowledge available to the end user - the producer.

TARGET:

1) The Institute will develop an instant access library containing information on technology relevant to Manitoba agriculture.

2) Evaluate computer software systems and coordinate communication between various users and suppliers of computer software and data.

3) The SSFMI will coordinate and sponsor educational activities as they relate to farm management.

SPONSORING GROUPS:

Agriculture Canada
Agri-business firms
Manitoba Agriculture
University of Manitoba

CONTACT PERSON:

Dr. Daryl Kraft
Department of Agricultural Economics
University of Manitoba
Winnipeg, Manitoba
R3T 2N2

PROJECT NAME: AGRI-FOOD ADMINISTRATION (MANITOBA)

PROJECT NUMBER: 41301

DURATION: May 30/84-Dec. 31/90 **TOTAL FUNDING:** $250,000

LOCATION: Province of Manitoba

BACKGROUND: Action Plan

Manitoba Agriculture funded activities will be coordinated among the Program Analysis Branch, Administrative Services Branch, Financial Admininstrator, Federal-Provincial Coordinator, the Farm and Rural Development Division and the Agricultural Development and Marketing Division. The number and type of activities will be dependent on tasks carried out by staff and those contracted. Meetings with provincial and federal staff will occur as needed for planning, problem solving and carrying out administrative or coordinating functions.

Activities will include development of project outlines, budgeting, executing contracts, payment of accounts, obtaining Agreement Management approval, obtaining provincial approval, implementation and coordination.

Activities will include:
-- implementation and coordination
-- analysis of development options
-- evaluation

SPONSORING GROUP: Manitoba Agriculture

CONTACT PERSONS:

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J. R. Cameron, Director
Program Analysis Branch
Manitoba Agriculture
811 Norquay Bldg.
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Phone: 945-3667

PROJECT NAME: Public Information - Canada

PROJECT NUMBER: 42101

DURATION: Five (5) years

FUNDING: $150,000 (Federal)

LOCATION: Winnipeg

BACKGROUND: The Agri-Food Development Agreement, a subsidiary of the Canada-Manitoba Economic and Regional Development Agreement (ERDA) is designed to bring together a shared federal-provincial perspective on economic action in the agricultural sector. The success of the Agri-Food Agreement will depend entirely on the ultimate value to the residents of Manitoba of the various activities funded by the Agreement.

TARGET:

1) Acknowledge the role of Canada and Manitoba in regional economic development.

2) Create general awareness and enhance public understanding of the Agri-Food program.

3) Encourage general cooperation between the two levels of government in order to ensure that communications projects are implemented in an effective and efficient manner.

SPONSORING GROUPS:

Agriculture Canada

CONTACT PERSON:

David Durksen
Agriculture Canada
303 - 275 Portage Avenue
Winnipeg, Manitoba
R3B 2B3

(204) 949-8622

PROJECT NAME: PUBLIC AND TECHNICAL INFORMATION (MANITOBA)

PROJECT NUMBER: 42102

DURATION: May 30/84-Dec. 31/90 **TOTAL FUNDING:** $150,000

LOCATION: Manitoba

BACKGROUND: Public communication is an integral part of the Agri-Food Sub-Agreement under ERDA. Section 11.1 of the Sub-Agreement states, "The Parties agree to cooperate in planning, development and delivery of public information activities relating to this Agri-Food Development Agreement under the discretion of the Agreement Management Committee."

Action Plan

-- Develop stationery for use in all Agri-Food communications activities, in accordance with the guidelines prescribed and agreed to by the Federal and Provincial Coordinators.
-- Develop mailing lists for news releases, information bulletins, meeting notices, booklets, etc.
-- Prepare news releases and/or technical information bulletins as events transpire and that would warrant publicity.
-- Cooperate with and assist other agencies in planning, publicizing and presentation of news conferences, public meetings, workshops, seminars and other special events.
-- Develop a format for the publication of all technical bulletins, in agreement with the Federal and Provincial Coordinators and with agencies involved in the Agri-Food projects.
-- Collect technical information on projects as it becomes available and prepare in cooperation with project managers technical information newsletters, bulletins, factsheets, etc.

SPONSORING GROUP: Manitoba Agriculture

CONTACT PERSONS:

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Communications Branch
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PROJECT NAME: Agricultural Technology Information

PROJECT NUMBER: 42201

DURATION: Five (5) years

FUNDING: $150,000 (Federal)

LOCATION: Winnipeg

BACKGROUND: The Agri-Food Development Agreement, a subsidiary of the Canada-Manitoba Economic and Regional Develoment Agreement (ERDA) has a large number of projects funded by the Agreement. These projects are expected to provide a substantial amount of technical information that has been developed for the benefit of Manitoba agriculture. The funding allocated to this project will be used in the production and distribution of technical information flowing from Agri-Food activities.

TARGET:

1) Assist, where required and requested, in the preparation, production and distribution of educational and informational material for use by extension agencies of Government and the agri-food sector.

2) Monitor the various projects carried out under the Agri-Food program in order to assess the value of the information being derived from each project.

SPONSORING GROUPS:

Agriculture Canada

CONTACT PERSON:

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R3B 2B3

(204) 949-8622